

Panasonic[®]

Operating Instructions

Network Camera

Model No.



Please read this manual before using, and save this manual for future reference.

Panasonic Network Camera Website: <http://www.panasonic.com/netcam>

Main Features

Dome-shaped Camera for Neat Mounting on the Ceiling

This is a dome-shaped camera with integrated mounting hardware ideal for indoor ceiling use. Conventionally, to mount our cameras (other than the optical zoom type^{*1}) on the ceiling, a separate dedicated stand was necessary.

The integration of the mount equipment and the neat design of the dome shape allow you to mount the camera anywhere conveniently.

PoE^{*2} (Power over Ethernet) Compliant with a Power Receiving Device Integrated

The camera is compliant with PoE (IEEE 802.3af) standards, contains a power receiving device that enables it to receive power via an Ethernet cable, and supports PoE^{*2}. This allows you to mount the camera even if there is no power outlet near the installation position, and saves the cost of installing a new power outlet. In addition, since power can be supplied through a 100 m long cable from the PoE hub, the camera can be installed in a wide range of positions. Data transmission is also performed via the Ethernet cable, so the connection of several cables is not necessary. This allows you to mount the camera neatly considering the esthetic appearance of the installation position.

The power can also be supplied via an optional AC adaptor (Order No.: BB-HCA2A) when a power outlet is situated near the installation position.

10x Digital Zoom Feature^{*3}

The camera has a 10x digital zoom feature that allows you to increase the size of a monitored object up to 10 times. This makes it easier to view objects that are located far away from the camera. In addition, each user can use this digital zoom feature. Therefore, when accessing one camera from multiple positions, each user

Motion Detection Feature^{*5}

SD Memory Card Recording

Multi-Camera Page^{*9}

Other Features

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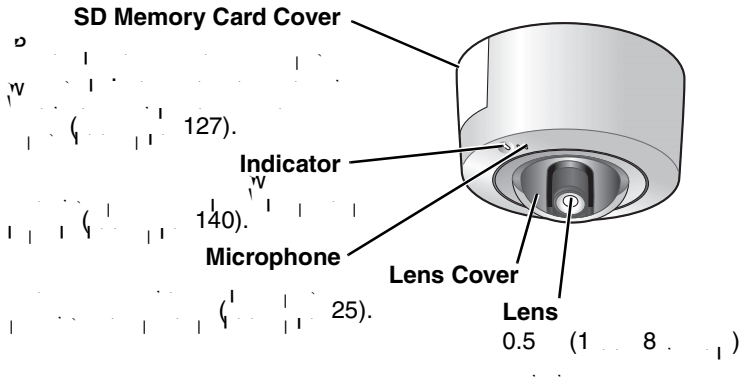
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1 Camera Monitoring

1.1 Feature Locations

1.1.1 Front View



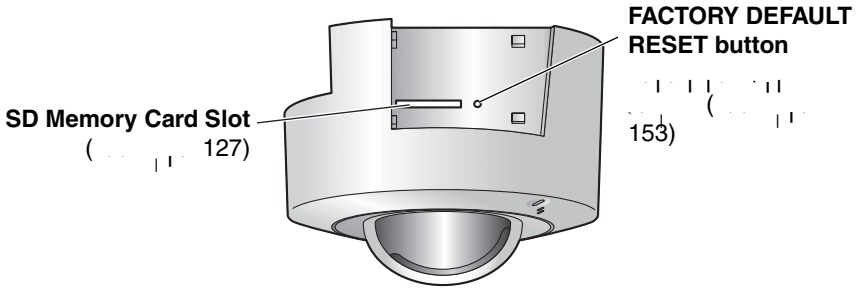
Indicator Display

		→ →
		→
	*1	
		→
		()
		(2)
		*2

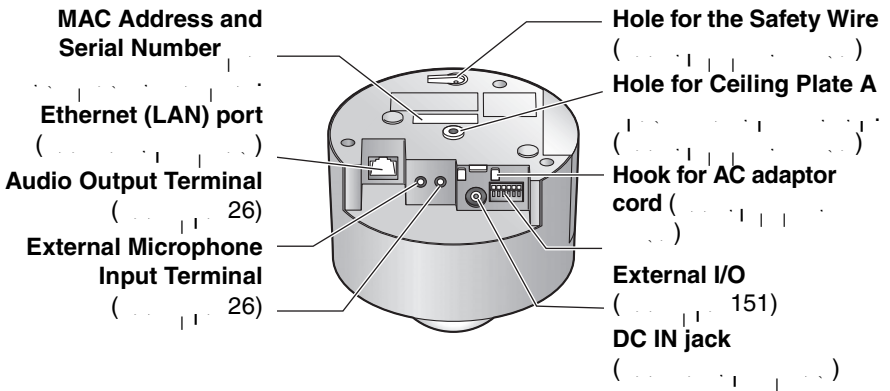
*1

*2 3.6

1.1.2 Side View



1.1.3 Bottom View



1.2 How to Turn on the Camera

When using the AC Adaptor (Model No. BB-HCA2A: Option)

- Connect the AC adaptor to the power jack of the camera.
- Connect the power cord to the AC adaptor.

When using a PoE hub (Connecting the AC adaptor is not necessary.)

- Connect the camera to the PoE hub.
- Connect the PoE hub to the PoE switch.

Note

- Do not connect the camera to a power source other than the AC adaptor or PoE hub.

1.3 Accessing the Camera

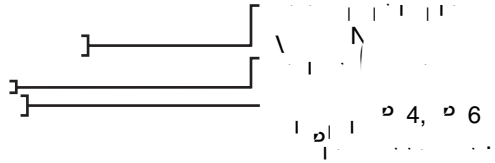
1. <http://192.168.0.253:50000>
 2. **"[http://IPv4 Address \(or URL\):Port Number](http://IPv4 Address (or URL):Port Number)"**
 - <http://192.168.0.253:50000> (LAN),
 - <http://64.13.14.9:50000> (Internet)
- "[http://\(IPv6-registered URL\):Port Number](http://IPv6-registered URL):Port Number)"**
- <http://192.168.0.253:50000> (in IPv4)
 - http://*****:50000 (in IPv6)

3. <http://www.>

Note

- <http://www.>

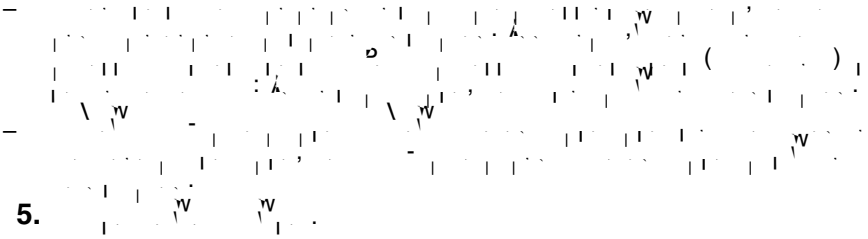
4.



A (15)
 C (29)
 E (141)
 G (79)

B (27)
 D (35)
 F (150)

Note



5.

1.3.1 To Access the Camera in IPv6

- PC Requirements
 - Operating System: Windows 7 or later
 - Web Browser: Internet Explorer 6.0 or later
- An IPv6 Router
- An IPv6 Connection Service

IPv6 Domain Name Service

What is IPv6?

- IPv6 is a 128-bit address.
- IPv6 is represented by 16 hexadecimal digits.
- IPv6 is represented by 4, 2, or 1 digit.
- IPv6 is represented by () and :.
- <http://www.ipv6.org/>

Setting up the IPv6 Router, your PC, and the Camera

Setting up the IPv6 Router

http://panasonic.co.jp/pcc/products/en/netwcam/

Setting up your PC

1. Open the Windows Settings app by clicking the Start button, then clicking the gear icon. In the Settings app, click on "Privacy" in the left-hand menu, then click on "Camera" in the right-hand pane. In the "Camera" settings, click on "Change" next to "Allow apps to access your camera" to turn it on.
2. In the "Camera" settings, click on "Change" next to "Allow apps to access your camera" to turn it on.

Note

- If you are using a Windows 10 PC, you may need to update your Windows operating system to the latest version. To check for updates, click on "Windows Update" in the Settings app, then click on "Check for updates".
 - If you are using a Windows 11 PC, you may need to update your Windows operating system to the latest version. To check for updates, click on "Windows Update" in the Settings app, then click on "Check for updates".
3. In the "Camera" settings, click on "Change" next to "Allow apps to access your camera" to turn it on.


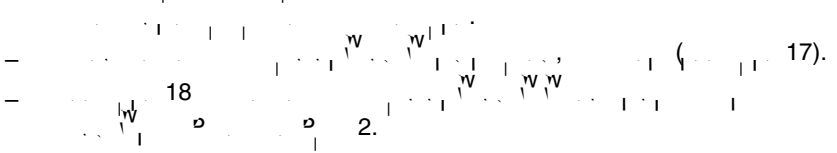
Setting up the Camera

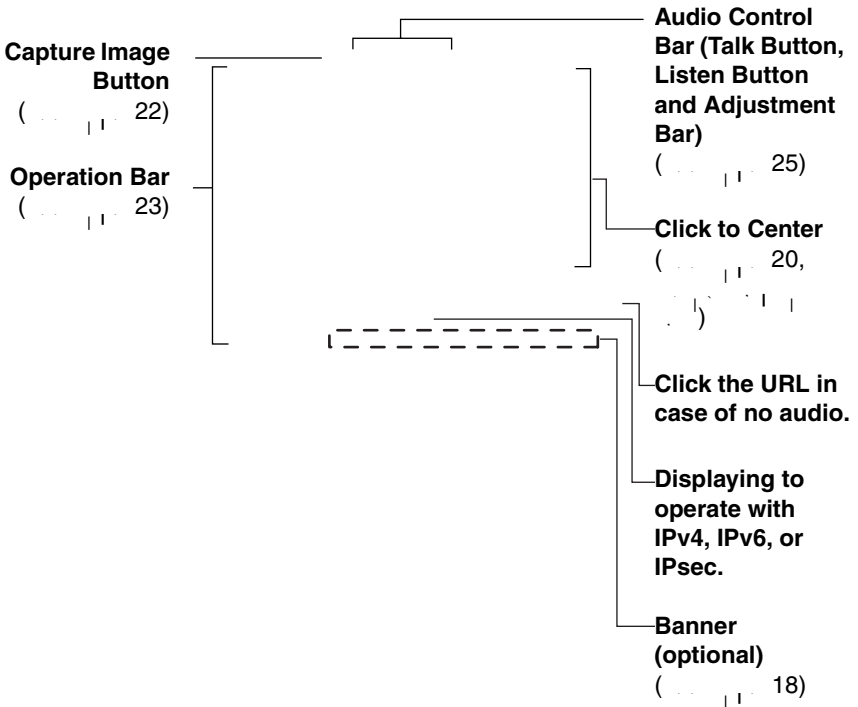
43. In the "Camera" settings, click on "Change" next to "Allow apps to access your camera" to turn it on.

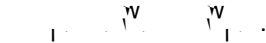
Confirming that You Can Access the Camera

- 11).

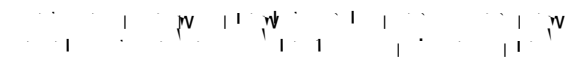

1.4 Viewing the Single Camera page

1.  (Screenshot 11).
2.  (Screenshot 17).

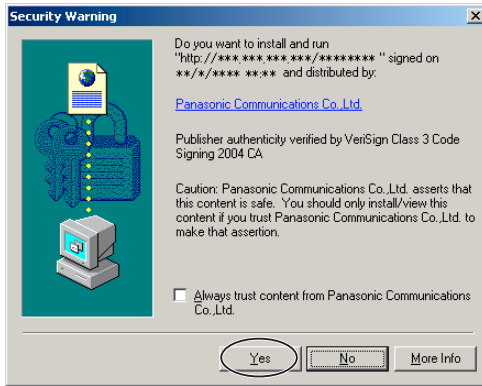


3. 

Note

-  (Screenshot 17)
-  (Screenshot 23).

Security Warning window



If you cannot install ActiveX Controls or you cannot see the video using the Internet Explorer

- (1)
- (2)

- (1)
- (2)
- (3)

<http://panasonic.co.jp/pcc/products/en/netwkcaml/>

Note

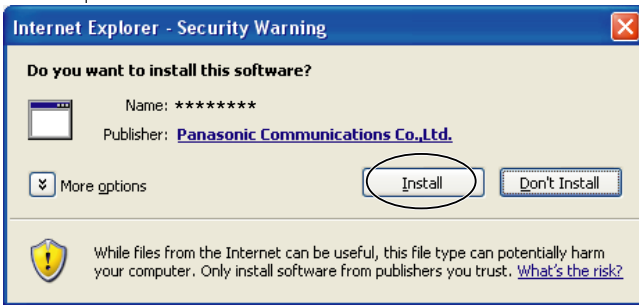
(162).

Security Warning window on Microsoft Windows XP Service Pack 2

1.



2.



1.4.1 Displaying the Banner

1.

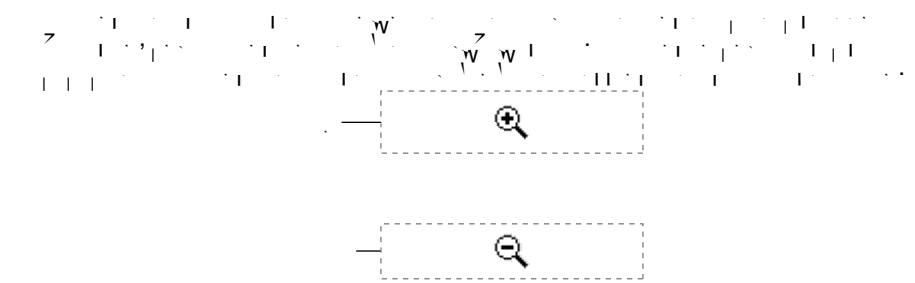
132).

1.4.2 Zooming In and Out

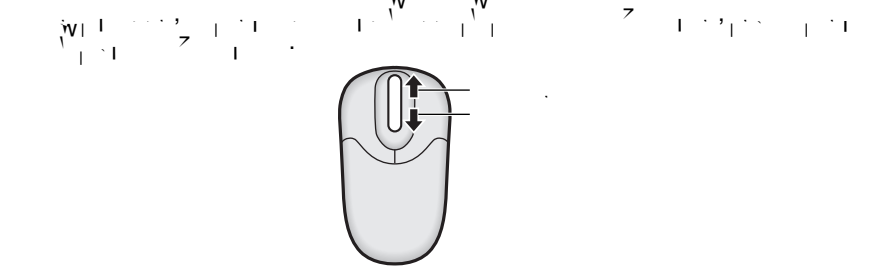
Note

- Press the **Ctrl** key and the **+** key to zoom in.
- Press the **Ctrl** key and the **-** key to zoom out.
- Press the **Ctrl** key and the **0** key to reset the zoom.

Clicking the right mouse button (For Only Video)



Rotating the mouse wheel (For Only Video)



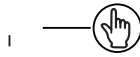
Note

- Press the **Ctrl** key and the **Mouse Wheel** to zoom in and out.

1.4.3 Auto Centering the Image (Click to Center)

1. In the **Image** palette, click the **Image** icon (the icon with a hand cursor) to activate the **Image** tool. (See Figure 14-23.)

1. Click the **Image** icon (the icon with a hand cursor) to activate the **Image** tool. (See Figure 14-23.)



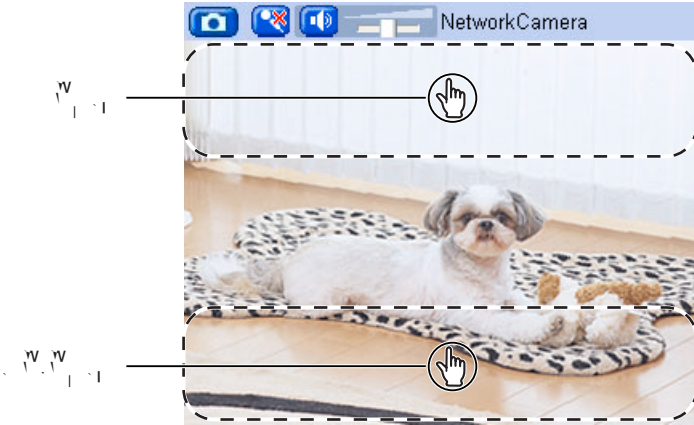
2. Click the image.

- The image is centered on the page.
- See Figure 14-24.

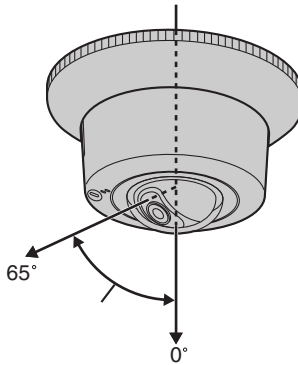
Note

- The **Image** tool is also used to move images. (See Figure 14-25.)
- The **Image** tool is also used to resize images. (See Figure 14-26.)
- The **Image** tool is also used to crop images. (See Figure 14-27.)

1.4.4 Tilt Operation



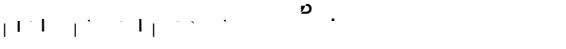
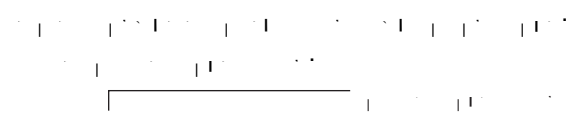
Tilt range

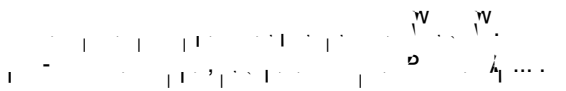


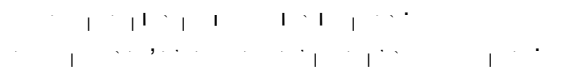
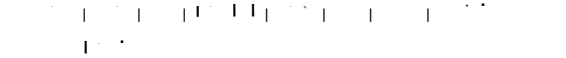
Note

- The camera can be tilted up to 65° from the 0° position.
- The camera can be tilted down to 65° from the 0° position.

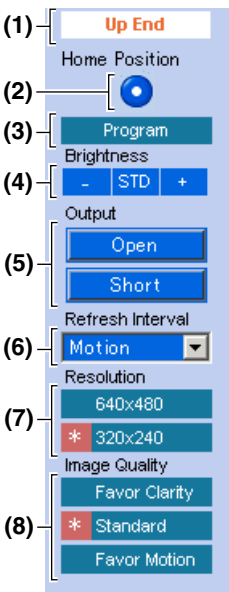
1.4.5 Capturing a Still Image

1. 
2. 

3. 

4. 
5. 

1.4.6 Using the Operation Bar



(1) End Display:

End display ()

(2) Home Position (the administrator only):

Home position ()

(3) Program (the administrator only):

Program ()

(4) Brightness: ()

()

(5) Output Control:

Output control ()

(6) Refresh Interval:

Refresh interval ()

(7) Resolution: 640 480 320 240

()

(8) Image Quality:

Image quality ()

()

()

()

()

1.4.7 Setting the Home Position (the administrator only)

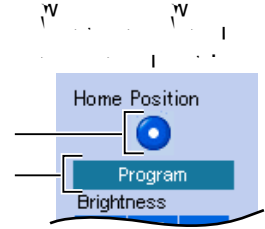
Registering the Home Position

1.

2.

3.

4.



Viewing the Home Position

1.

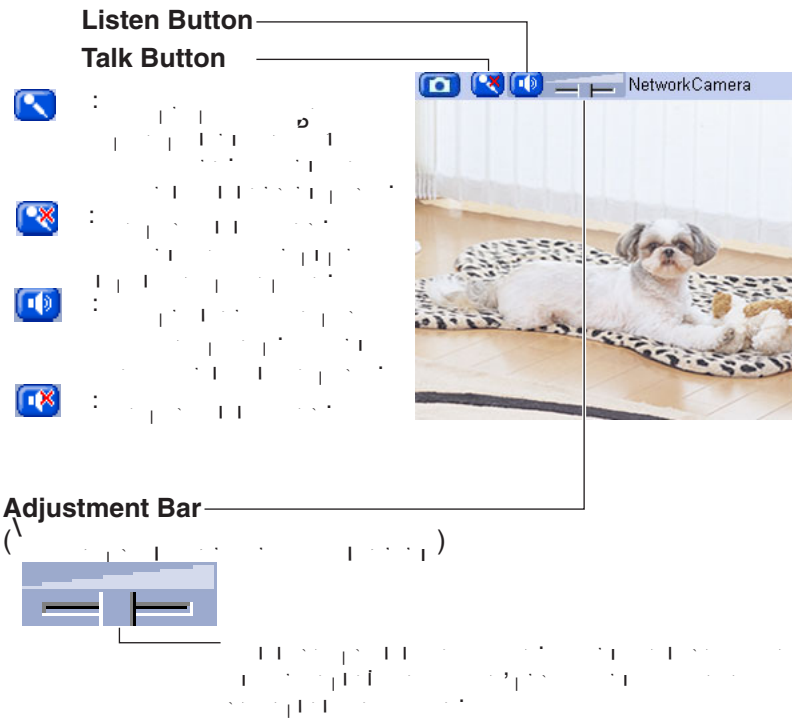
Note

—

1.5 Listening to Camera Audio and Talking through the Camera

1. Tap the microphone icon (Figure 11-11).
2. Tap the microphone icon to turn off the microphone.
3. Tap the microphone icon (Microphone icon, NetworkCamera) to turn on the microphone.

Audio Feature



Note

41 (46). 10

(73).

()

41 46).

16

7 (23).

1.6 Viewing the Multi-Camera page

1. Click on the **Multi** button (Figure 135).
2. The **Multi** camera view is displayed (Figure 136).



Figure 135: Multi camera view button (Figure 135) (Page 22)

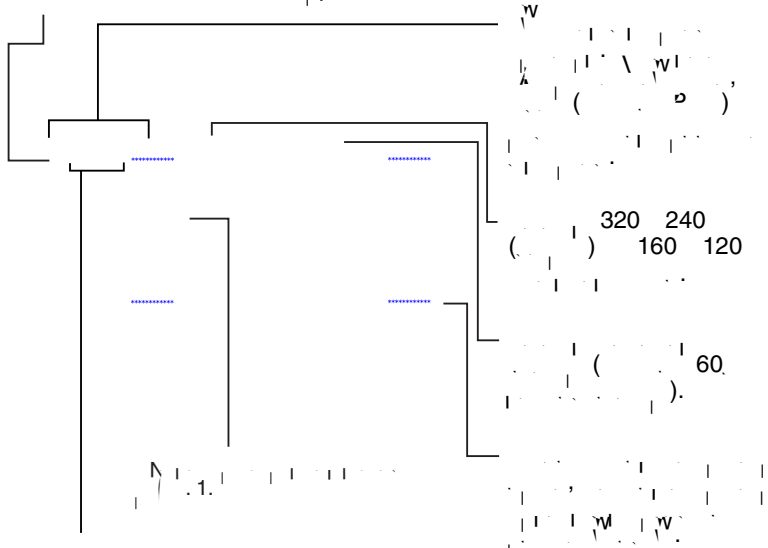


Figure 136: Audio Control Bar (Talk button, Listen button and Adjustment Bar) (Page 25)

3. Click on the **Talk** button (Figure 137).

Note

160 120
640 480-
(41 46).
(80).
4 3 4

When an image is not displayed on the Multi-Camera page

(192.168.0.253)
(135).
(162).

When setting [Do not permit access from guest users] or [Permit access from guest users (mobile only)] on the Security: Administrator page

10
(19).
(1.0 10.0)

Using the digital zoom feature on the Multi-Camera page

10
(19).
(1.0 10.0)

1.7 Viewing the Buffered Image page

... (84, 94, 106).

Note

1. ... (11).

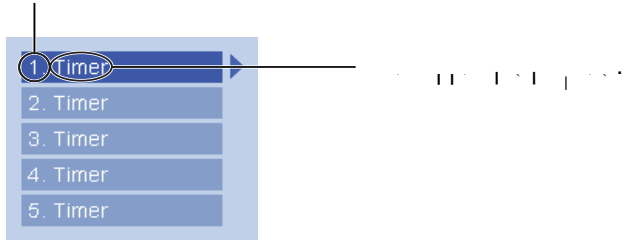
2. ...

3.

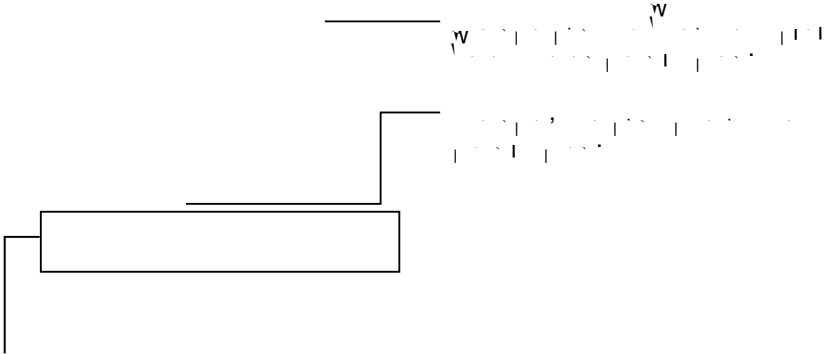


3.

... (84, 94, 106).



4.



[Play]:

[<Prev] or [Next>]:

[First], [<10000], [<1000], [<100], [<10] or [10>], [100>], [1000>], [10000>],
[Last]:

10 , 100 , 1000 10000

[Download]

<http://panasonic.co.jp/pcc/products/en/netwkcam/>

Using the digital zoom feature on the Buffered Image page

- Press **10** **w** (19).
- Press **(1.0 10.0)** **w**.
- Press **4**.

Note

- Press **w**.
- Press **1**.
- Press **2**.
- Press **(320 240)** **b**.
- Press **125**.
- Press **(3 5)** **3**.
- Press **40** **177**.
- Press **178**.

1.7.1 Deleting Buffered Images

- Press **(84, 94, 106)**.

Note

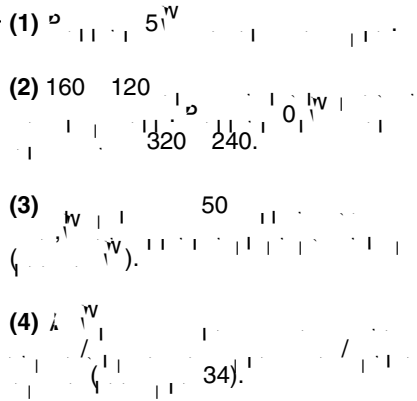
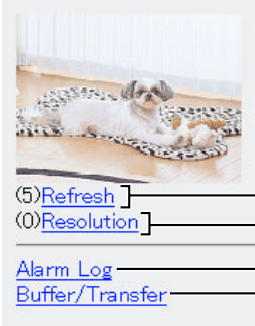
- Press **1**.
- Press **w**.
- Press **2**.
- Press **(84, 94, 106)** **/**.

1.8 Viewing Still Images on Your Cell Phone

```

http://IP address (or URL):Port Number/Mobile
80 ( ),
://***.***.***.***:50000/
( *****. :50000/ )

```



Alarm Log Info.
 Displays Up to 50
 Logs in order of
 time.

[Control Page](#)

New Logs:3

10/22 19:15	A1 R
10/22 18:40	A2 F
10/22 18:15	MD

[Control Page](#)



Display	Operation	Signal
A1 R	Alarm1	Rising: GND to Open (High)
A2 F	Alarm2	Falling: Open (High) to GND
MD	Motion Detection	-



Note

1. **http:// IP address(or URL):Port Number/MobileH**

(***** :50000/)

2. **http:// IP address(or URL):Port Number/MobileX**

(***** :50000/)

<http://panasonic.co.jp/pcc/products/en/netwkcaml>

1.8.1 Enabling or Disabling the Buffer/Transfer on your Cell Phone

1. Press **[F2]** to enter the menu.
2. Press **[F1]** to select **Buffer/Transfer**.
3. Press **[F1]** to select **No. Status Trigger**.

Buffer/Transfer

No. Status Trigger

(1) OFF Timer

(2) OFF Timer

(3) OFF Timer

(4) OFF Timer

(5) OFF Timer

[Control Page](#)

4. Press **[F1]** to select **(1) OFF Timer**.

Buffer/Transfer

The 1st setting will be changed to ON.
If you press [Save], all buffered images are deleted.

[Save](#) [Cancel](#)

No.(1)

Status:OFF -> ON

Trigger:Timer

Su Mo Tu We Th Fr Sa

Active:Always

No Transfer, No Memory

Overwrite

Notify :-

- Press **[F1]** to select **(1) OFF Timer**.
- Press **[F1]** to select **(2) OFF Timer**.
- Press **[F1]** to select **(3) OFF Timer**.
- Press **[F1]** to select **(4) OFF Timer**.
- Press **[F1]** to select **(5) OFF Timer**.

2 Using the Camera's Basic Features

2.1 Setup Page of the Camera

1. Click **Setup** (Figure 2-11).

Note

- 2.

Top Single Multi Buffered Image **Setup** Maintenance Support

Basic

- Network(IPv4)**
- Network(IPv6)
- P2P
- UPlP
- DynamicDNS
- Date and Time
- Camera
- Audio

Account

- Administrator
- General User

Buffer/Transfer

- Trigger
- Motion Detection
- Alarm Log

Advanced

- Image Display
- Multi-Camera
- Operation Time
- External Output
- Indicator Control

Network(IPv4)

Set up network configuration.
Select "Automatic Setup" if you connect the camera to the router and wish to set it up automatically.
Select "Static" if you wish to assign a static IP address to the camera.
Select "DHCP" if you are using the DHCP function of your router or ISP.

Connection Mode	
Connection Mode	Current Setting
Automatic Setup	X
Static	
DHCP	

Configure network settings automatically

Assign static IP address to the camera.

Get IP address from DHCP server

Basic

- (1) Network (IPv4) 38).
- (2) Network (IPv6) 43).
- (3) IPsec 47).
- (4) UPnP 57).
- (5) DynamicDNS 60).
- (6) Date and Time 67).
- (7) Camera 70).
- (8) Audio 73).

Account

- (9) Administrator*1 75).
- (10) General User*1 80).

Buffer/Transfer

- (11) Trigger 84, 94, 106).
- (12) Motion Detection 120).
- (13) Alarm Log 124).

Advanced

- (14) Image Display 132).
- (15) Multi-Camera*1 135).

(16) **Operation Time**

137).

(17) **External Output**

139).

(18) **Indicator Control**

140).

*1

W I k (P) W

2.2 Connecting the Camera to Your IPv4 Network

- 1.
- 2.

Connection Mode	
Connection Mode	Current Setting
Automatic Setup	<input type="checkbox"/>
Static	<input type="checkbox"/>
DHCP	<input type="checkbox"/>

- 3.

Automatic Setup

80 50000 50050.

Allow Access from the Internet
<input type="radio"/> Yes
<input checked="" type="radio"/> No
Max. Bandwidth Usage
Unlimited
Connection Type
Auto Negotiation
<input type="button" value="Save"/> <input type="button" value="Cancel"/>

DHCP Setup

Network Configuration from Setup Program	
<input checked="" type="checkbox"/> Enable	
Internet Connection	
Port No.	80
Host Name	
Default Gateway	
Default Gateway	
DNS	
DNS Server 1	
DNS Server 2	
Max. Bandwidth Usage	
Unlimited	
Connection Type	
Auto Negotiation	
Save Cancel	

Static Setup

Network Configuration from Setup Program	
<input checked="" type="checkbox"/> Enable	
Internet Connection	
Port No.	80
IP Address	192.168.0.253
Subnet Mask	255.255.255.0
Default Gateway	
Default Gateway	
DNS	
DNS Server 1	
DNS Server 2	
Max. Bandwidth Usage	
Unlimited	
Connection Type	
Auto Negotiation	
Save Cancel	

4.

Automatic Setup or DHCP Setup

Static Setup

Note

5.

Note

156).

Setting	Description
<p>()</p>	<p>80 50000 50050</p>
<p>(/)</p>	
<p>(/)</p>	<p>80.</p> <p>2.7.2</p> <p>(4)".</p> <p>: 20 21, : 23, : 25, : 53,</p> <p>: 3: 110, : 443, : 4000 :</p> <p>6661 6667.</p> <p>1 65535.</p> <p>80.</p>
<p>()</p>	<p>4 (255) 3 155).</p> <p>"192.168.0.253".</p> <p>"255.255.255.255"</p> <p>"0.0.0.0"</p>

Setting	Description
()	176)
(/)	4. (255) 3 "192.168.0.253" "255.255.255.255"
(/)	4. (255) 3 "192.168.0.253" "255.255.255.255"
()	0.1 4 6. Note 160 120 : 3.5 (28) 320 240 : 10 (80) 640 480 : 18 (144)

Setting	Description
	<p data-bbox="409 219 973 267"> 1. The first part of the document is a list of items. </p> <p data-bbox="409 267 973 324"> 2. The second part of the document is a list of items. </p> <p data-bbox="409 324 973 381"> 3. The third part of the document is a list of items. </p> <p data-bbox="409 381 973 438"> 4. The fourth part of the document is a list of items. </p> <p data-bbox="409 438 973 495"> 5. The fifth part of the document is a list of items. </p> <p data-bbox="409 495 973 552"> 6. The sixth part of the document is a list of items. </p>

*1 [faded text]

2.3 Connecting the Camera to Your IPv6 Network

Note

- 1.
- 2.

Connection Mode	
Connection Mode	Current Setting
Automatic Setup	<input type="text"/>
Static	<input type="text"/>

- 3.

Automatic Setup

Allow Access from the Internet	
<input type="radio"/> Yes	
<input checked="" type="radio"/> No	
DNS	
DNS Server 1	<input type="text"/>
DNS Server 2	<input type="text"/>
Max. Bandwidth Usage	
Unlimited ▾	
Connection Type	
Auto Negotiation ▾	
<input type="button" value="Save"/> <input type="button" value="Cancel"/>	

Static Setup

4.

New settings are saved.

New settings are saved. Please restart this product.

Note: All the buffered images will be erased when restarted.

Restart

Note

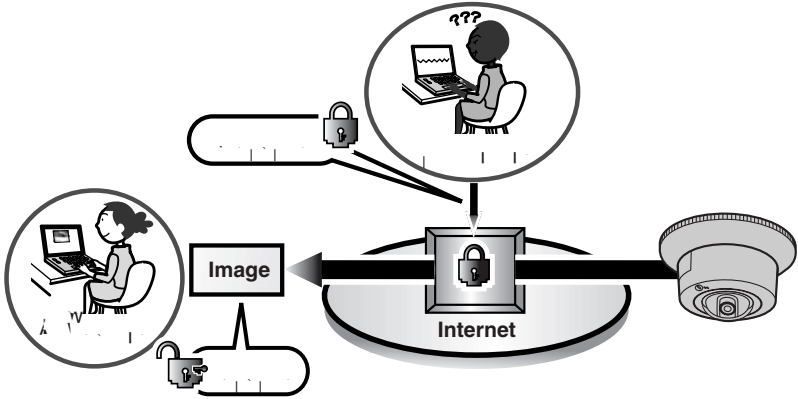
5.

Note

Setting	Description
<p> </p>	<p> </p>
<p> </p>	<p> </p> <p>80.</p> <p> ρ: 20, 21, : 23, ρ: 25, : 53, ρ ρ3: 110, ρ : 443, : 4000 : 6661 6667. </p> <p> </p> <p>1 65535.</p> <p> </p> <p>80.</p>
<p> </p>	<p> </p> <p> ρ 6 8 0 "::" (. 2001:2:3:4::5) </p>
<p> </p>	<p> </p> <p> ρ 6 8 0 "::" (. 2001:2:3:4::5) </p>
<p> </p>	<p> </p> <p> ρ 6 8 0 "::" (. 2001:2:3:4::5) </p>

Setting	Description
	<p data-bbox="929 240 963 264">0.1</p> <p data-bbox="697 298 846 326">p 4 p 6.</p> <p data-bbox="352 345 408 370">Note</p> <p data-bbox="426 493 857 521">160 120 : k 3.5< (28<)</p> <p data-bbox="426 529 857 557">320 240 : k 10< (80<)</p> <p data-bbox="426 565 857 592">640 480 : k 18< (144<)</p>
	<p data-bbox="717 630 733 654">9</p> <p data-bbox="697 688 846 716">p 4 p 6.</p>

2.4 What is IPsec?



Camera's IPsec Features

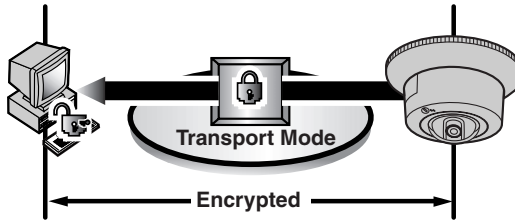
Item	Supported Feature
1	<ul style="list-style-type: none"> 1. Authentication: HMAC-SHA1, HMAC-SHA256, HMAC-SHA384, HMAC-SHA512 2. Encryption: AES-128, AES-192, AES-256 3. Integrity: SHA-1, SHA-256, SHA-384, SHA-512 4. Compression: deflate, zlib 5. Tunnel: IKEv1, IKEv2 6. Transport: UDP, TCP
2	<ul style="list-style-type: none"> 1. Authentication: HMAC-SHA1, HMAC-SHA256, HMAC-SHA384, HMAC-SHA512 2. Encryption: AES-128, AES-192, AES-256 3. Integrity: SHA-1, SHA-256, SHA-384, SHA-512 4. Compression: deflate, zlib 5. Tunnel: IKEv1, IKEv2 6. Transport: UDP, TCP

*1

*2

IPsec Mode Selection

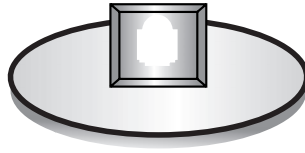
Transport Mode (IPv4 Only)



Item	Supported Feature
	<p>6.0</p> <p>Note</p> <p>http://panasonic.co.jp/pcc/products/en/netwkcsm/</p>

Tunnel Mode (IPv4/IPv6)

Note



Item	Supported Feature
	: 2000, 98 (4) : 1 (6) : 6.0
	(4) : (k (6) : k " 4/ 6 - " " 6 4 Note http://panasonic.co.jp/pcc/products/en/netwkcsm/
	(4) : (k (6) : k " 4/ 6 - " " 6 4

2.5 Encrypting the Camera Image in Transport Mode

Note

- 1.
2. **Camera**

No. /

124)

Transport		
If you use transport mode in E-mail or FTP transfer, click No. in the Buffer/Transfer column.		
No.	Status	Ahead connecting
Camera	OFF	Web Access HTTP Any
Buffer/Transfer		
No.	Status	Ahead connecting
1	OFF	
2	OFF	
3	OFF	
4	OFF	
5	OFF	
No.	Status	Ahead connecting
1	OFF	

118).

Note

- 1,
- 2
- 3.

Transport setting	
Status	<input type="checkbox"/> ON
Pre-Shared Key (1 to 83 Characters)	<input type="text"/>
Retype Pre-Shared Key	<input type="text"/>
<input type="button" value="Save"/> <input type="button" value="Cancel"/>	

Setting	Description
<p>176).</p> <p>Note</p>	

4.

5.

6.

IPsec

Check the box to enable IPsec features. If you clear the box, whole IPsec features will be invalid.

Use

Encoding strength

Encoding strength for IPsec can be selected. If you select [Standard], DES or NULL is valid as an algorithm, and then the data will become easier to be decrypted.

Standard (AES,3DES,DES, NULL)

High (AES,3DES)

Setting	Description

7.

8.

48.

9.

(11).

Note

<http://panasonic.co.jp/pcc/products/en/netwcam/>

2.6 Encrypting the Camera Image in Tunnel Mode

Note

- 1.
- 2.

Add

Tunnel		
To add IPsec settings, click "Add". To edit your settings, click the corresponding No.		
No.	Status	Ahead connecting
Add		

- 3.

Tunnel setting	
Status	<input checked="" type="checkbox"/> ON
Pre-Shared Key (1 to 83 Characters)	<input type="text"/>
Retype Pre-Shared Key	<input type="text"/>
Network address	<input type="text"/>
Router address	<input type="text"/>
<input type="button" value="Save"/> <input type="button" value="Cancel"/>	

Setting	Description

Setting	Description
<p>176).</p> <p>Note</p>	<p>176).</p> <p>Note</p>
<p>Note</p>	<p>Note</p>
<p>Note</p>	<p>Note</p>

4.

5.

6.

IPsec

Check the box to enable IPsec features. If you clear the box, whole IPsec features will be invalid.

Use

Encoding strength

Encoding strength for IPsec can be selected. If you select[Standard], DES or NULL is valid as an algorithm, and then the data will become easier to be decrypted.

Standard (AES,3DES,DES, NULL)

High (AES,3DES)

Setting	Description
1	1
2	2

7.

8.

IKE Items	Settings
1	1
	2
	*1
	1 2.
	(128, 192, 256)
	5, k-1
	28800, ()
2	1
	2.
	(128, 192, 256)
	5-96, k-1-96
	28800, ()

*1

Items	Settings

9. (11).

Note

23
<http://panasonic.co.jp/pcc/products/en/netwcam/>

2.7 Using UPnP™ (Universal Plug and Play)

<http://panasonic.co.jp/pcc/products/en/netwkcaml>

Note

1. Select **UPnP** in the **Network** menu.
2. Select **Auto Port Forwarding** in the **UPnP** menu.

Auto Port Forwarding

Enable

Disable

Display Shortcut Icon in My Network Places

Enable

Disable

Save

Setting	Description
<p>UPnP</p>	<p>UPnP (Universal Plug and Play) is a protocol that allows devices to discover each other on a network and share resources. For more information, see the UPnP specification (http://www.upnp.org/specifications/1.0/UPnP-Architecture-v1.0.pdf).</p> <p>Note</p> <p>UPnP is not supported on networks using IPv6.</p>
<p>Auto Port Forwarding</p>	<p>Auto Port Forwarding is a feature that automatically configures port forwarding on your router. For more information, see the Auto Port Forwarding specification (http://www.upnp.org/specifications/1.0/UPnP-Architecture-v1.0.pdf).</p> <p>Note</p> <p>Auto Port Forwarding is not supported on networks using IPv6.</p>

3. Select **Display Shortcut Icon in My Network Places** in the **UPnP** menu.

4.

2.7.1 Connecting the Camera to a Router that Supports UPnP™ (IPv4 Only)

Note

<http://panasonic.co.jp/pcc/products/en/netwcam/>

2.7.2 Connecting the Camera to a Router that Does Not Support UPnP™ (IPv4 Only)

1.

- (1) (2) (3) (4) (5) (6) (7) (8) (9) (10) (11).

Note

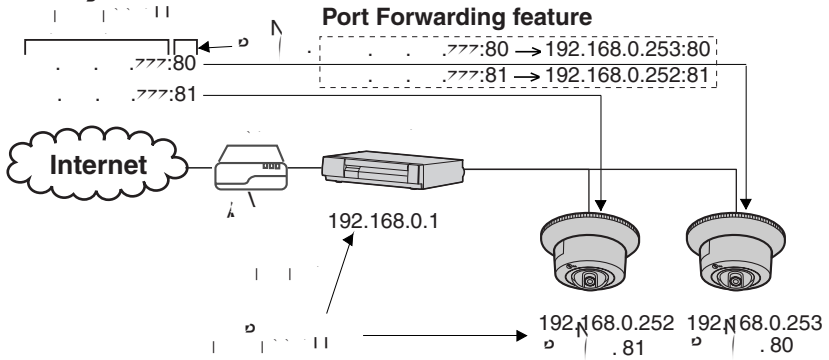
- (4)
- (5)

2.

1-(3),

3.

Port Forwarding feature*1 (IPv4 Only)



Note

-

2.8 Registering with the DynamicDNS Service

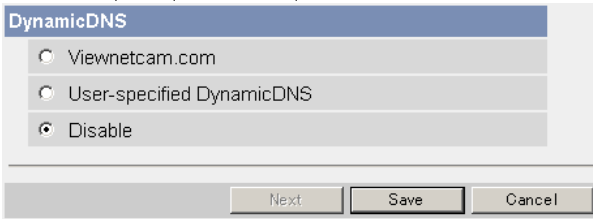
<http://www.viewnetcam.com>

1.

62)

When you select [Disable]

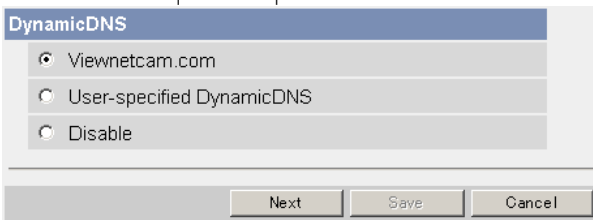
2.



The screenshot shows a dialog box titled "DynamicDNS". It contains three radio button options: "Viewnetcam.com", "User-specified DynamicDNS", and "Disable". The "Disable" option is selected. At the bottom of the dialog, there are three buttons: "Next", "Save", and "Cancel".

When you select [Viewnetcam.com]

2.



The screenshot shows the same "DynamicDNS" dialog box. In this instance, the "Viewnetcam.com" radio button is selected. The "User-specified DynamicDNS" and "Disable" options are unselected. The "Next", "Save", and "Cancel" buttons remain at the bottom.

3.

Viewnetcam.com configuration

Personal (Camera) URL	
Your Account Link	

Save Cancel

Setting	Description
Personal (Camera) URL	Personal (Camera) URL
Your Account Link	Your Account Link

4.

5.

6.

Your Account Link.

Note

(1)

(2)

7. In the **Dynamic DNS** section, click **Dynamic DNS**.
8. In the **Dynamic DNS** section, click **Dynamic DNS** (see Figure 11).

Note

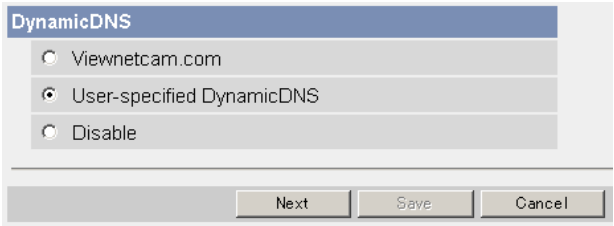
30. In the **Dynamic DNS** section, click **Dynamic DNS** (see Figure 11).

Confirming Internet access

32. In the **Dynamic DNS** section, click **Dynamic DNS** (see Figure 11).

When you select [User-specified DynamicDNS]

2.



32. In the **Dynamic DNS** section, click **Dynamic DNS** (see Figure 11).

3.

User-specified DynamicDNS

DynamicDNS Server URL (1 to 255 Characters)	<input style="width: 90%;" type="text"/>
Updating time	10 min ▼

Input User Name and Password

User Name (0 to 63 Characters)	<input style="width: 90%;" type="text"/>
Password (0 to 63 Characters)	<input style="width: 90%;" type="password"/>

- [] DynamicDNS Server URL (1 to 255 Characters)
- [] Updating time (10 min)
- [] User Name (0 to 63 Characters)
- [] Password (0 to 63 Characters)

Setting	Description
*1	DynamicDNS Server URL (1 to 255 Characters)
*2	User Name (0 to 63 Characters)
*2	Password (0 to 63 Characters)

- *1 DynamicDNS Server URL (1 to 255 Characters)
- *2 User Name (0 to 63 Characters)

4.

- [] DynamicDNS Server URL (1 to 255 Characters)
- [] Updating time (10 min)

5.

- [] User Name (0 to 63 Characters)
- [] Password (0 to 63 Characters)

Note

- [] DynamicDNS Server URL (1 to 255 Characters)
- [] User Name (0 to 63 Characters)

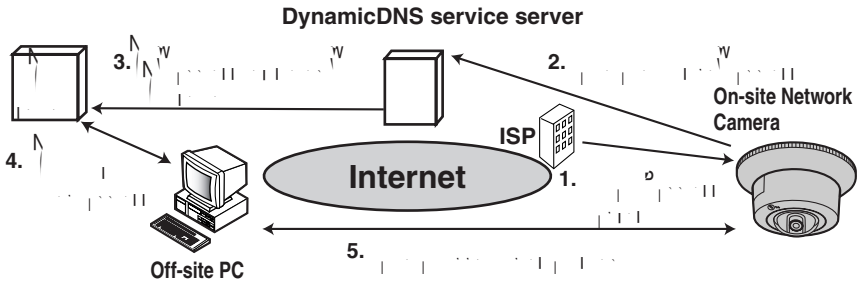
Confirming Internet access

- \hat{A} (11)
- \hat{A} (32)

2.8.1 DynamicDNS Service (IPv4/IPv6)

What are the advantages of DynamicDNS service?

How the DynamicDNS service works



1.

2.

3.

4.

5.

Note

- 80: [http://\(Cameraname\).viewnetcam.com](http://(Cameraname).viewnetcam.com)
 - : [http://\(Cameraname\).viewnetcam.com:Port](http://(Cameraname).viewnetcam.com:Port)
- Number

2.9 Setting the Date and Time

Note

- 1.
- 2.

Time Setting			
Date	Month <input type="text" value="Jun"/>	Day <input type="text" value="1"/>	Year <input type="text" value="05"/>
Format	<input type="text" value="AM/PM"/>	<input type="text" value="24H"/>	
Time	Hour <input type="text" value="7"/>	Minute <input type="text" value="0"/>	<input type="text" value="PM"/>
Automatic Time Adjustment			
<input type="checkbox"/> Enable			
NTP Server Address or Host Name	<input type="text"/>		
Time Zone	<input type="text" value="GMT-05:00 Eastern Time"/>		
Adjust Clock for Daylight Saving Time			
<input type="checkbox"/> Enable			
Start Day:	Month <input type="text" value="Apr"/>	Weekday <input type="text" value="First Sunday"/>	Hour <input type="text" value="2"/> <input type="text" value="AM"/>
End Day:	Month <input type="text" value="Oct"/>	Weekday <input type="text" value="Last Sunday"/>	Hour <input type="text" value="2"/> <input type="text" value="AM"/>
<input type="button" value="Save"/> <input type="button" value="Cancel"/>			

Setting	Description
	<p>(/ 24).</p>
<p>255) "192.168.0.253". "0.0.0.0" "255.255.255.255" (1 255 (2001:2:3:4::5).</p> <p>Note</p>	<p>(0 b 6, Q</p>
<p>Note</p>	

- 3.
- -

4.

-
-

Note

-
-

2.10 Changing Camera Settings

1. In the **Camera Settings** dialog box, click the **Settings** tab.

1. **Resolution** (1920 x 1080)

2. **Frame Rate** (30)

– **Resolution** (1920 x 1080) **Frame Rate** (30)

Setting	Description
	<p>176)</p> <p>(1 15 2- 1-N)</p> <p>1 7 & < ></p>
	<p>() (2800<)</p> <p>() (3600<)</p> <p>() (4000<)</p> <p>() (6000<)</p> <p>Note</p>
	<p>(1)</p> <p>Note</p>

3.

- $\frac{1}{2} \frac{d}{dt} \int_{\mathbb{R}^3} |\mathbf{v}|^2 dx = \int_{\mathbb{R}^3} \mathbf{v} \cdot \nabla \phi dx$
- $\int_{\mathbb{R}^3} \mathbf{v} \cdot \nabla \phi dx = - \int_{\mathbb{R}^3} \nabla \cdot (\mathbf{v} \phi) dx$
- $\int_{\mathbb{R}^3} \nabla \cdot (\mathbf{v} \phi) dx = \int_{\mathbb{R}^3} \nabla \cdot \mathbf{v} \phi dx + \int_{\mathbb{R}^3} \mathbf{v} \cdot \nabla \phi dx$

4.

- $\int_{\mathbb{R}^3} \nabla \cdot \mathbf{v} \phi dx = \int_{\mathbb{R}^3} \nabla \cdot (\mathbf{v} \phi) dx - \int_{\mathbb{R}^3} \mathbf{v} \cdot \nabla \phi dx$

2.11 Adjusting Audio

1. In the **Audio** section, click **Advanced**.
2. In the **Advanced** section, click **Advanced**.

Figure 2.11.1: Adjusting Audio

Setting	Description
Audio	Click Advanced to expand the Advanced section.
Advanced	Click Advanced to expand the Advanced section.
Advanced	Click Advanced to expand the Advanced section.
Advanced	Click Advanced to expand the Advanced section.

3.

- $\frac{1}{2} \int_{-\infty}^{\infty} \frac{1}{x^2} dx$
- $\frac{1}{2} \int_{-\infty}^{\infty} \frac{1}{x^2} dx$

4.

- $\frac{1}{2} \int_{-\infty}^{\infty} \frac{1}{x^2} dx$

3 Registering Users

3.1 Changing the Authentication Setting and Administrator User Name and Password

Note

-
-
-

IMPORTANT

-

1. Click on the **General Authentication** tab.
2. Select the **Do not permit access from guest users** radio button.

General Authentication

- Permit access from guest users
- Permit access from guest users (mobile only)
- Do not permit access from guest users

Administrator Authentication

User Name (8 to 15 Characters)

Password (8 to 15 Characters)

Retype Password

Setting	Description
	<p>3</p> <p>Note</p> <p>Support <input type="button" value="Login"/></p>

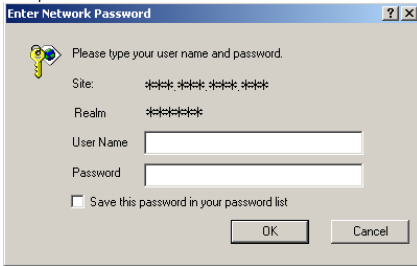
Setting	Description
	<p>(6 15):</p> <p>(6 15):</p> <p>Note</p> <p>176).</p> <p>"," , & , < , > :</p>

Note

-
-
- 3. -
-
- 4. -
-

Note

-



Administrator/General Users/Guest Users

Items	Administrator	General Users	Guest Users	Guest Users (mobile only)
1	1	50		
2	1	50	80	
3	1	50	80	

Note

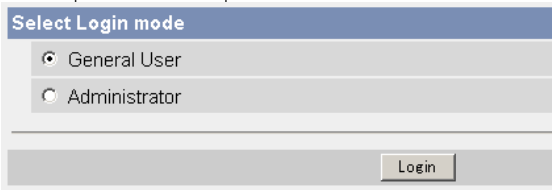
-

3.2 Logging in to the Camera

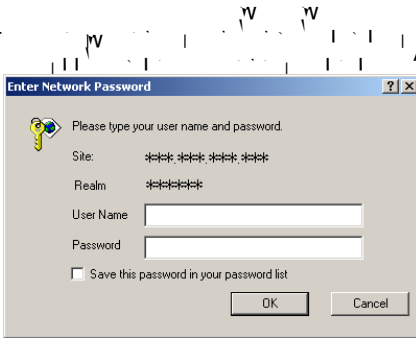
1.



2.



Note



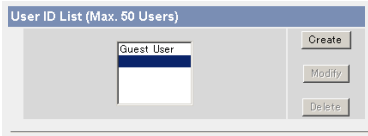
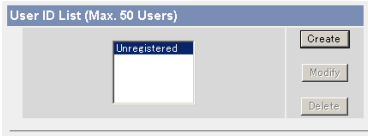
3.

3.3 Creating, Modifying or Deleting General Users

50
()

Note

- 1.
- 2.



-
-

3.

Input User Name and Password

User Name (6 to 15 Characters)

Password (6 to 15 Characters)

Retype Password

Access Level

Limit time of Continuous Motion JPEG

Refresh Interval

Brightness Control

External Output Control

Change Refresh Interval

Change Resolution

Change Quality

Capture Image Button

Listen

Talk

View Multi-Camera page

View Buffered Image page

Access Level

Limit time of Continuous Motion JPEG

Refresh Interval

Brightness Control

External Output Control

Change Refresh Interval

Change Resolution

Change Quality

Capture Image Button

Listen

Talk

View Multi-Camera page

View Buffered Image page

Setting	Description
	50
	(6 15):
	(6 15):
	Note
	-
	-
	-
	176).
	&, <, >

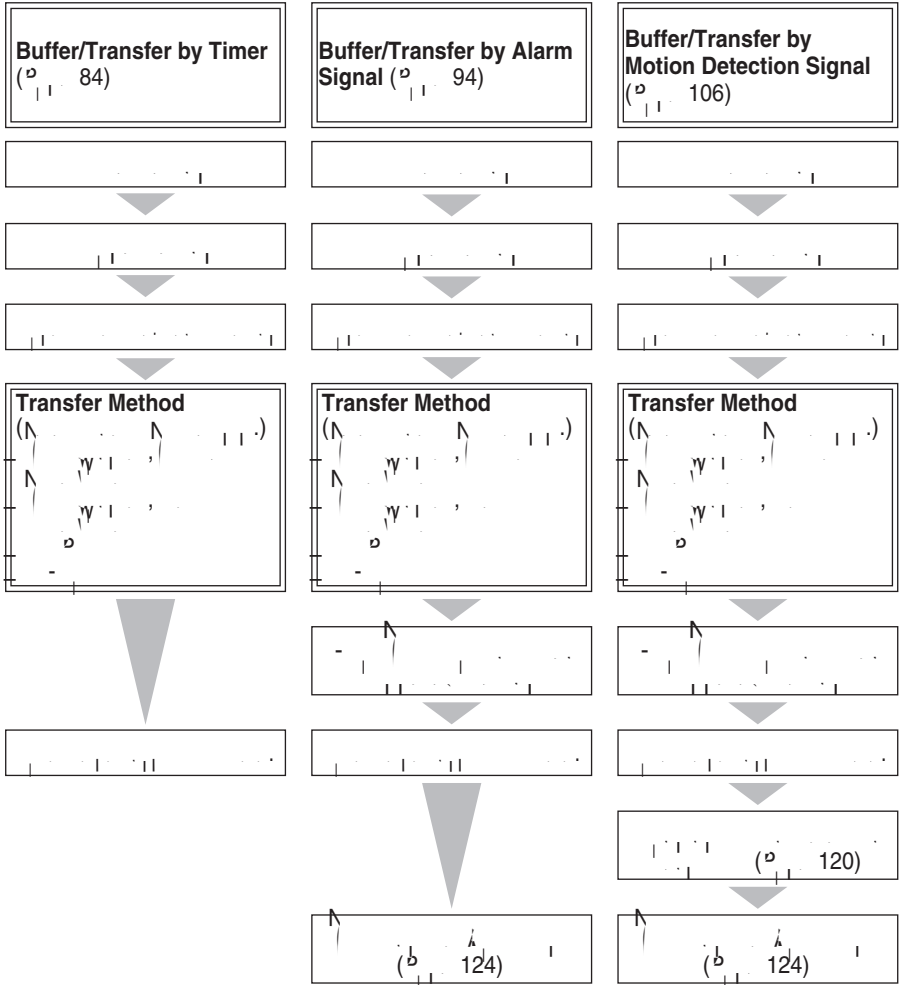
Setting	Description
<p>4. $\frac{1}{2}$</p>	<p>4. $\frac{1}{2}$ (10) 60</p> <p>(3) 60</p> <p>23)</p> <p>23)</p> <p>23)</p> <p>23)</p> <p>23)</p> <p>22)</p> <p>25)</p> <p>25)</p> <p>27)</p> <p>29)</p>

4. $\frac{1}{2}$
- -
- 5.
-

4 Buffering or Transferring Images

4.1 Procedures of Buffering or Transferring Images

117



4.2 Buffering or Transferring Images by Timer

Note

- 1.
- 2.

No.

Trigger												
No	Status	Trigger	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Active Time of Trigger	Transfer Method	Notify
1	OFF	Timer	X	X	X	X	X	X	X	Always	No Transfer, No Memory Overwrite	-
2	OFF	Timer	X	X	X	X	X	X	X	Always	No Transfer, No Memory Overwrite	-
3	OFF	Timer	X	X	X	X	X	X	X	Always	No Transfer, No Memory Overwrite	-
4	OFF	Timer	X	X	X	X	X	X	X	Always	No Transfer, No Memory Overwrite	-
5	OFF	Timer	X	X	X	X	X	X	X	Always	No Transfer, No Memory Overwrite	-

- 3.

Trigger Setting

Enable Image Buffer/Transfer

Trigger Timer

Note

Setting	Description

Setting	Description
1	2

4. >

Time

Sun	Mon	Tue	Wed	Thu	Fri	Sat	Active Time of Trigger
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Always
<input type="radio"/> AM <input type="text" value="12"/> h <input type="text" value="0"/> min to <input type="radio"/> PM <input type="text" value="11"/> h <input type="text" value="59"/> min							

< Back Next > Cancel

Note

(67).

Setting	Description
1	2

5. >

Image Setting

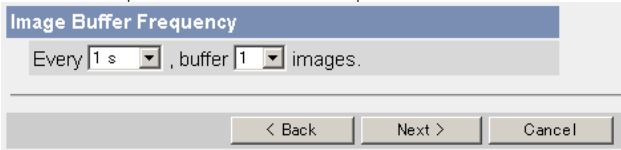
Image Resolution	<input type="text" value="320x240"/>
Image Quality	<input type="text" value="Standard"/>

< Back Next > Cancel

<

Setting	Description
Image Buffer Frequency	<p>Every 1 s, buffer 1 images.</p> <p>(640 480, 320 240 (1))</p> <p>160 120 (1))</p> <p>Note</p> <p>640 480</p>

6. >



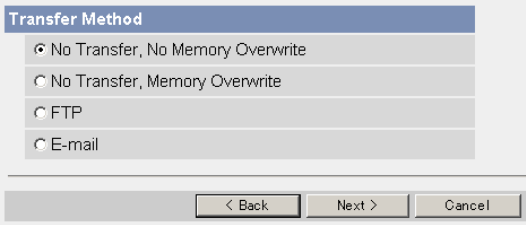
<

Note

1

Setting	Description
Image Buffer Frequency	<p>(1 30)</p>

7.



Note

Setting	Description
<ul style="list-style-type: none"> - Transfer Method (45). 	<ul style="list-style-type: none"> - Selects the transfer method to use when transferring files to the device. The default is No Transfer, No Memory Overwrite.
<ul style="list-style-type: none"> - Transfer Method (45). 	<ul style="list-style-type: none"> - Selects the transfer method to use when transferring files to the device. The default is No Transfer, No Memory Overwrite.
<ul style="list-style-type: none"> - Transfer Method (45). 	<ul style="list-style-type: none"> - Selects the transfer method to use when transferring files to the device. The default is No Transfer, No Memory Overwrite.
<ul style="list-style-type: none"> - Transfer Method (45). 	<ul style="list-style-type: none"> - Selects the transfer method to use when transferring files to the device. The default is No Transfer, No Memory Overwrite.

When you set [FTP] for Transfer Method

FTP	
Server IP Address or Host Name	<input type="text"/>
Port No. (Usually Use 21)	<input type="text" value="21"/>
Login ID (0 to 63 Characters)	<input type="text"/>
Password (0 to 63 Characters)	<input type="text"/>
Login Timing	<input type="text" value="Every Time"/>
Upload File Name (1 to 234 Characters)	<input type="text"/>
Overwrite setting	<input type="text" value="Overwrite File"/>
Data Transfer Method	<input type="text" value="Passive Mode"/>
<input type="button" value=" < Back"/> <input type="button" value=" Save"/> <input type="button" value=" Cancel"/>	

Setting	Description
Server IP Address or Host Name	Server IP Address or Host Name (0 to 255). "192.168.0.253" or "0.0.0.0"
Port No. (Usually Use 21)	Port No. (1 to 65535). 21
Login ID (0 to 63 Characters)	Login ID (0 to 63 Characters).
Password (0 to 63 Characters)	Password (0 to 63 Characters).
Login Timing	Login Timing (1 to 234 Characters).
Upload File Name (1 to 234 Characters)	Upload File Name (1 to 234 Characters).
Overwrite setting	Overwrite setting (Overwrite File, Append File, Do Not Overwrite).
Data Transfer Method	Data Transfer Method (Active Mode, Passive Mode).

Setting	Description
	<p data-bbox="437 318 671 342"><u>20060101093020500.</u></p> <p data-bbox="416 342 841 399">"9 30 . 20 500 1, 2006".</p>

*1 |
 *2 |

When you set [E-mail] for Transfer Method

E-mail Transfer	
SMTP Server IP Address or Host Name	<input type="text"/>
Port No. (Usually Use 25)	<input type="text" value="25"/>
Reply E-mail Address	<input type="text"/>
Destination E-mail Address 1	<input type="text"/>
Destination E-mail Address 2	<input type="text"/>
Destination E-mail Address 3	<input type="text"/>
Subject (Up to 44 Characters)	<input type="text"/>
Text (Up to 63 Characters)	<input type="text"/>
How to authenticate	
<input checked="" type="radio"/> No authentication	
<input type="radio"/> POP before SMTP authentication	
POP3 Server IP Address or Host Name	<input type="text"/>
Port No. (Usually Use 110)	<input type="text" value="110"/>
Login ID (1 to 63 Characters)	<input type="text"/>
Password (0 to 63 Characters)	<input type="text"/>
<input type="radio"/> SMTP authentication	
Login ID (1 to 63 Characters)	<input type="text"/>
Password (0 to 63 Characters)	<input type="text"/>
<input type="button" value=" < Back"/> <input type="button" value=" Save"/> <input type="button" value=" Cancel"/>	

Note

20060101093020500

9 30 20 500

1, 2006"

Setting	Description
<p>3 "255.255.255.255" (1 255</p>	<p>"192.168.0.253". (0 255) "0.0.0.0" 6</p>
<p>(1 65535).</p>	<p>25.</p>
<p>*2</p>	<p></p>
<p>*2 1 3</p>	<p>(3).</p>
<p>*2 1-</p>	<p>(0 44 176) 0 22 2-</p>
<p>*2 1-</p>	<p>(0 63 176) 0 31 2-</p>

Setting	Description
	<p>POP server authentication may be required by your ISP. In that case, set POP before SMTP authentication.</p> <p>4. (0 255) 3 "192.168.0.253". "0.0.0.0" "255.255.255.255" (0 255). 6 (1 65535). 110. 63 (1 63 (0 (1 63 (0 63</p>

*1 " " , & , < > .
*2 " " .

8. $\int_0^1 \frac{1}{\sqrt{1-x^2}} dx$
- $\int_0^1 \frac{1}{\sqrt{1-x^2}} dx = \arcsin x \Big|_0^1 = \arcsin 1 - \arcsin 0 = \frac{\pi}{2} - 0 = \frac{\pi}{2}$
 - $\int_0^1 \frac{1}{\sqrt{1-x^2}} dx = \arcsin x \Big|_0^1 = \arcsin 1 - \arcsin 0 = \frac{\pi}{2} - 0 = \frac{\pi}{2}$

9. $\int_0^1 \frac{1}{\sqrt{1-x^2}} dx$
- $\int_0^1 \frac{1}{\sqrt{1-x^2}} dx = \arcsin x \Big|_0^1 = \arcsin 1 - \arcsin 0 = \frac{\pi}{2} - 0 = \frac{\pi}{2}$

Note

- $\int_0^1 \frac{1}{\sqrt{1-x^2}} dx = \arcsin x \Big|_0^1 = \arcsin 1 - \arcsin 0 = \frac{\pi}{2} - 0 = \frac{\pi}{2}$
- $\int_0^1 \frac{1}{\sqrt{1-x^2}} dx = \arcsin x \Big|_0^1 = \arcsin 1 - \arcsin 0 = \frac{\pi}{2} - 0 = \frac{\pi}{2}$

4.3 Buffering or Transferring Images by Alarm Signal

Note

1.

2.

Trigger												
No.	Status	Trigger	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Active Time of Trigger	Transfer Method	Notify
1	OFF	Timer	X	X	X	X	X	X	X	Always	No Transfer, No Memory Overwrite	-
2	OFF	Timer	X	X	X	X	X	X	X	Always	No Transfer, No Memory Overwrite	-
3	OFF	Timer	X	X	X	X	X	X	X	Always	No Transfer, No Memory Overwrite	-
4	OFF	Timer	X	X	X	X	X	X	X	Always	No Transfer, No Memory Overwrite	-
5	OFF	Timer	X	X	X	X	X	X	X	Always	No Transfer, No Memory Overwrite	-

3.

Trigger Setting

Enable Image Buffer/Transfer

Trigger: Alarm1

Alarm enable condition: Rising: GND to Open (High)

Delete Buffered Images

Next >
Save
Cancel

Note

Setting	Description

4.

Time

Sun	Mon	Tue	Wed	Thu	Fri	Sat	Active Time of Trigger
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="radio"/> Always <input type="radio"/> AM <input type="text" value="12"/> h <input type="text" value="0"/> min to PM <input type="text" value="11"/> h <input type="text" value="59"/> min

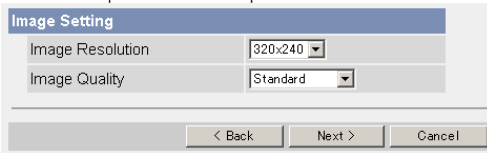
-
-

Note

-

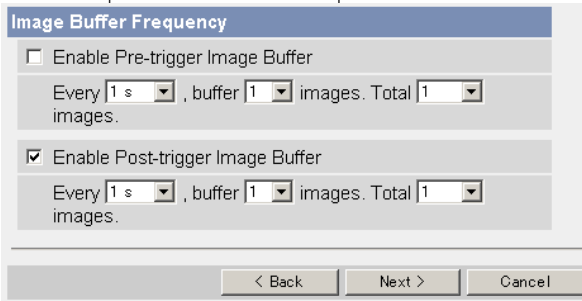
Setting	Description

5.



Setting	Description
	(640 480, 320 240 (...))
	<p>Note</p> <p>640 480</p>

6.



Note

Setting	Description
<p>1</p>	<p>(177)</p>
<p>1</p>	<p>(177)</p>

7.

Transfer Method

No Transfer, No Memory Overwrite

No Transfer, Memory Overwrite

FTP

E-mail

Note

45). (41)

Setting	Description
w	
w	
p	99).
-	- (101).

When you set [FTP] for Transfer Method

FTP	
Server IP Address or Host Name	<input type="text"/>
Port No. (Usually Use 21)	<input type="text" value="21"/>
Login ID (0 to 63 Characters)	<input type="text"/>
Password (0 to 63 Characters)	<input type="text"/>
Login Timing	<input type="text" value="Every Time"/>
Upload File Name (1 to 234 Characters)	<input type="text"/>
Overwrite setting	<input type="text" value="Overwrite File"/>
Data Transfer Method	<input type="text" value="Passive Mode"/>

Setting	Description
Server IP Address or Host Name	IP address of the server (0 255). "192.168.0.253". "255.255.255.255". "0.0.0.0".
Port No.	Port number (1 65535). 21.
Login ID	0 to 63 characters.
Password	0 to 63 characters.
Login Timing	Every Time
Upload File Name	1 to 234 characters.
Overwrite setting	Overwrite File
Data Transfer Method	Passive Mode

Setting	Description
	<p data-bbox="437 318 671 342"><u>20060101093020500.</u></p> <p data-bbox="416 342 841 399">1, 2006. 9 30 20 500</p>

*1 |
 *2 |

When you set [E-mail] for Transfer Method

E-mail Transfer	
SMTP Server IP Address or Host Name	<input type="text"/>
Port No. (Usually Use 25)	<input type="text" value="25"/>
Reply E-mail Address	<input type="text"/>
Destination E-mail Address 1	<input type="text"/>
Destination E-mail Address 2	<input type="text"/>
Destination E-mail Address 3	<input type="text"/>
Subject (Up to 44 Characters)	<input type="text"/>
Text (Up to 63 Characters)	<input type="text"/>
How to authenticate	
<input checked="" type="radio"/> No authentication	
<input type="radio"/> POP before SMTP authentication	
POP3 Server IP Address or Host Name	<input type="text"/>
Port No. (Usually Use 110)	<input type="text" value="110"/>
Login ID (1 to 63 Characters)	<input type="text"/>
Password (0 to 63 Characters)	<input type="text"/>
<input type="radio"/> SMTP authentication	
Login ID (1 to 63 Characters)	<input type="text"/>
Password (0 to 63 Characters)	<input type="text"/>
<input type="button" value=" < Back"/> <input type="button" value=" Next >"/> <input type="button" value=" Cancel"/>	

Note

20060101093020500

Setting	Description
<p>3 "255.255.255.255" (1 255</p>	<p>"192.168.0.253". (0 255) "0.0.0.0" 6</p>
<p>(1 65535).</p>	<p>25.</p>
<p>*2</p>	<p></p>
<p>*2 1 3</p>	<p>(3).</p>
<p>*2 1-</p>	<p>(0 44 176) 0 22 2-</p>
<p>*2 1-</p>	<p>(0 63 176) 0 31 2-</p>

Setting	Description
	<p>POP server authentication may be required by your ISP. In that case, set POP before SMTP authentication.</p> <p>4 (0 255) 3 "192.168.0.253". "0.0.0.0" "255.255.255.255" (0 255). 6 (1 65535). 110. 63 (1 63 (0 (1 63). (0 63).</p>

*1
*2

8.

E-mail notification when triggered

Disable

Enable

< Back Next > Cancel

102 103.

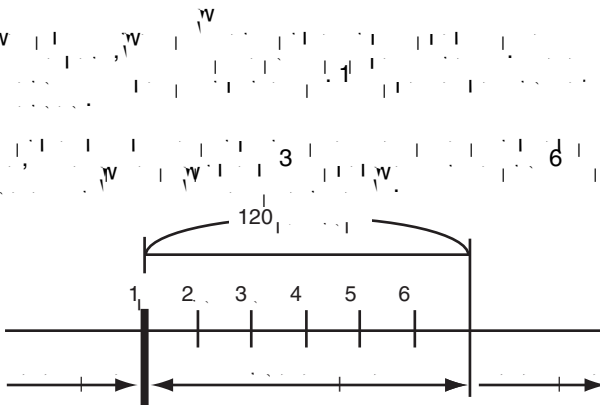
Setting	Description
	(3

9.

Note

10.

Note



4.4 Buffering or Transferring Images by Motion Detection Signal

Note

- 1.
- 2.

No.

Trigger												
No.	Status	Trigger	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Active Time of Trigger	Transfer Method	Notify
1	OFF	Timer	X	X	X	X	X	X	X	Always	No Transfer, No Memory Overwrite	-
2	OFF	Timer	X	X	X	X	X	X	X	Always	No Transfer, No Memory Overwrite	-
3	OFF	Timer	X	X	X	X	X	X	X	Always	No Transfer, No Memory Overwrite	-
4	OFF	Timer	X	X	X	X	X	X	X	Always	No Transfer, No Memory Overwrite	-
5	OFF	Timer	X	X	X	X	X	X	X	Always	No Transfer, No Memory Overwrite	-

- 3.

Trigger Setting

Enable Image Buffer/Transfer

Trigger Motion Detection ▾

Note

Setting	Description
	<p>Every day of the week</p>
	<p>Every 1st and 2nd day of the week</p>

4.

Time

Sun	Mon	Tue	Wed	Thu	Fri	Sat	Active Time of Trigger
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="radio"/> Always <input type="radio"/> AM <input type="text" value="12"/> h <input type="text" value="0"/> min to <input type="radio"/> PM <input type="text" value="11"/> h <input type="text" value="59"/> min
<input style="margin-right: 20px;" type="button" value=" < Back "/> <input style="margin-right: 20px;" type="button" value=" Next > "/> <input style="margin-right: 20px;" type="button" value=" Cancel "/>							

Note

Setting	Description
	<p>Every day of the week</p>
	<p>Every 1st and 2nd day of the week</p>

Note

Setting	Description
<p>1. Select the file or folder you want to transfer.</p>	<p>The description text is partially obscured by noise and artifacts, including a circled number '177'.</p>
<p>2. Select the transfer method.</p>	<p>The description text is partially obscured by noise and artifacts, including a circled number '177'.</p>

7.

Transfer Method

- No Transfer, No Memory Overwrite
- No Transfer, Memory Overwrite
- FTP
- E-mail

< Back Next > Cancel

Note

45).

Setting	Description
$\frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2}$...
$\frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{2}$...
$\frac{1}{2}$... (111)
$\frac{1}{2}$... (113)

When you set [FTP] for Transfer Method

FTP	
Server IP Address or Host Name	<input type="text"/>
Port No. (Usually Use 21)	<input type="text" value="21"/>
Login ID (0 to 63 Characters)	<input type="text"/>
Password (0 to 63 Characters)	<input type="text"/>
Login Timing	<input type="text" value="Every Time"/>
Upload File Name (1 to 234 Characters)	<input type="text"/>
Overwrite setting	<input type="text" value="Overwrite File"/>
Data Transfer Method	<input type="text" value="Passive Mode"/>

Setting	Description
Server IP Address or Host Name	IP address of the server. (0 255). (0 255). (0 255). (0 255). Example: "192.168.0.253". "255.255.255.255" (1 255).
Port No. (Usually Use 21)	Port number of the server. (1 65535). Example: 21.
Login ID (0 to 63 Characters)	Login ID of the server. (0 63 characters). Example: admin
Password (0 to 63 Characters)	Password of the server. (0 63 characters). Example: password
Upload File Name (1 to 234 Characters)	Upload file name of the server. (1 234 characters). Example: file1.txt

When you set [E-mail] for Transfer Method

E-mail Transfer	
SMTP Server IP Address or Host Name	<input type="text"/>
Port No. (Usually Use 25)	<input type="text" value="25"/>
Reply E-mail Address	<input type="text"/>
Destination E-mail Address 1	<input type="text"/>
Destination E-mail Address 2	<input type="text"/>
Destination E-mail Address 3	<input type="text"/>
Subject (Up to 44 Characters)	<input type="text"/>
Text (Up to 63 Characters)	<input type="text"/>
How to authenticate	
<input checked="" type="radio"/> No authentication	
<input type="radio"/> POP before SMTP authentication	
POP3 Server IP Address or Host Name	<input type="text"/>
Port No. (Usually Use 110)	<input type="text" value="110"/>
Login ID (1 to 63 Characters)	<input type="text"/>
Password (0 to 63 Characters)	<input type="text"/>
<input type="radio"/> SMTP authentication	
Login ID (1 to 63 Characters)	<input type="text"/>
Password (0 to 63 Characters)	<input type="text"/>
<input type="button" value=" < Back"/> <input type="button" value=" Next >"/> <input type="button" value=" Cancel"/>	

Note

"20060101093020500".

"9 30 20 500

1, 2006".

Setting	Description
3	"192.168.0.253" "255.255.255.255" (1 255)
6	(1 65535). 25.
*2	
1 3	(3).
*2	1- (0 44 176) 0 22 2-
*2	1- (0 63 176) 0 31 2-

Setting	Description
	<p>POP server authentication may be required by your ISP. In that case, set POP before SMTP authentication.</p> <p>4. (0 255) 3 "192.168.0.253". "0.0.0.0" "255.255.255.255" (0 255). 6 (1 65535). 110. 63 (1 63 (0 (1 63 (0 63</p>

*1 " " , & , < > .
*2 " " .

8.

E-mail notification when triggered

Disable

Enable

< Back Next > Cancel

114, 115.

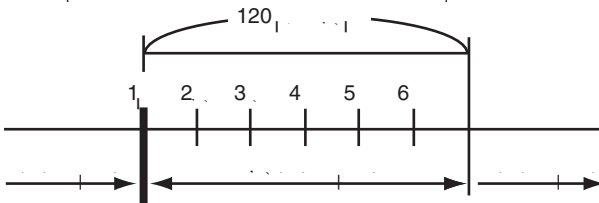
Setting	Description
	(3

9.

Note

10.

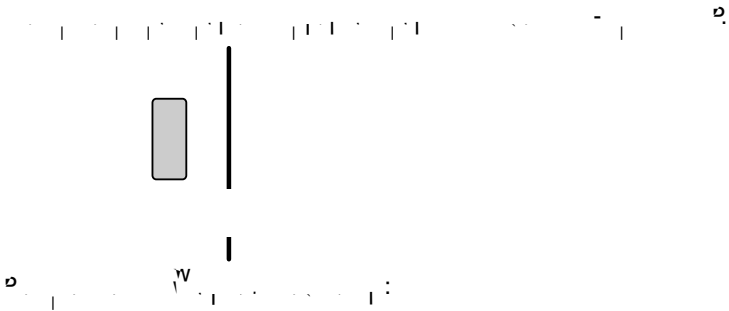
Note



W

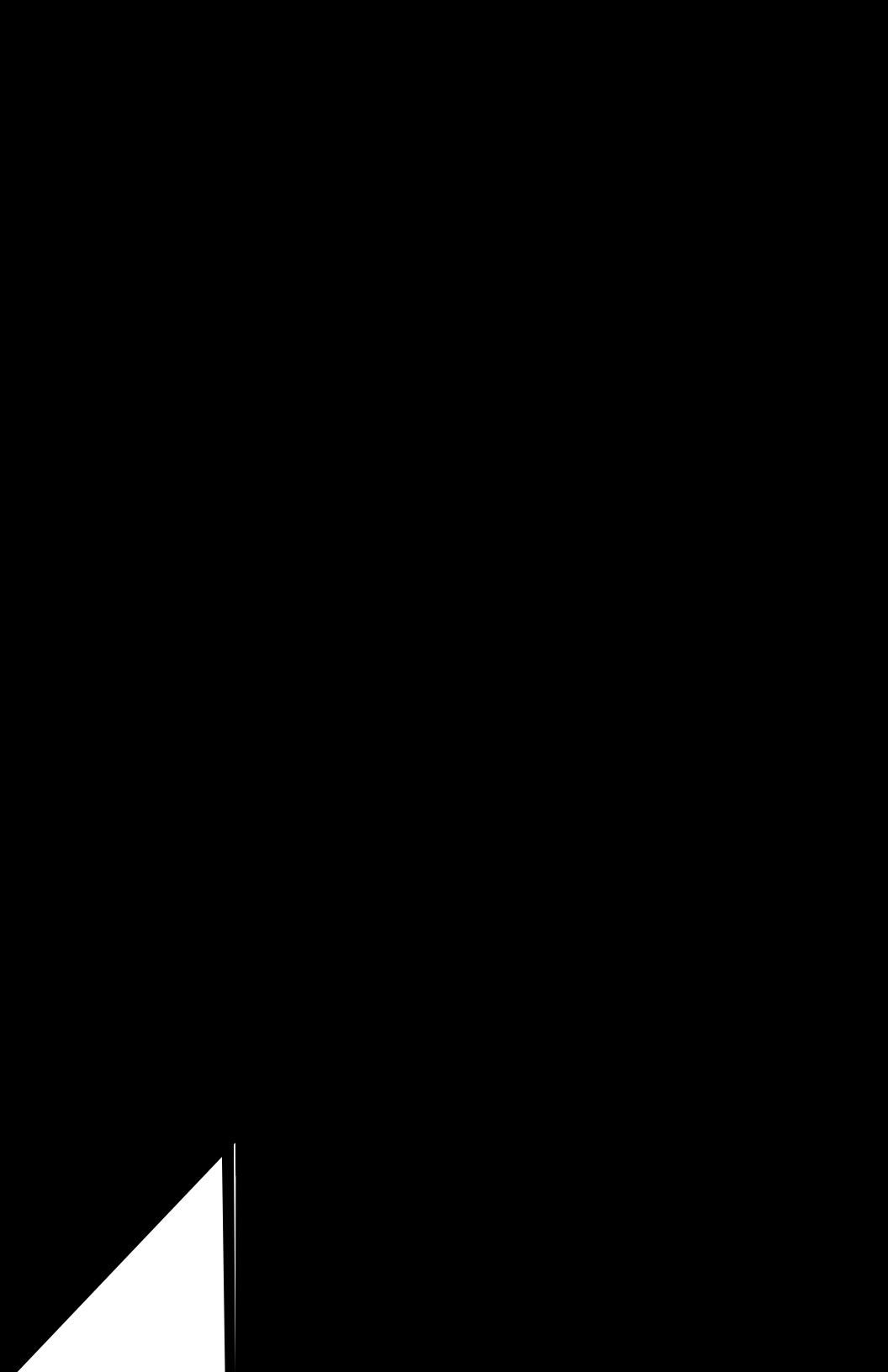
- $\frac{1}{2} \int_{-\infty}^{\infty} \delta(x) dx = \frac{1}{2}$
- $\int_{-\infty}^{\infty} \delta(x) dx = 1$
- $\int_{-\infty}^{\infty} \delta(x) f(x) dx = f(0)$
- $\int_{-\infty}^{\infty} \delta(x) f(x) dx = f(0)$
- $\int_{-\infty}^{\infty} \delta(x) f(x) dx = f(0)$

4.5 Transferring Camera Images in Transport Mode

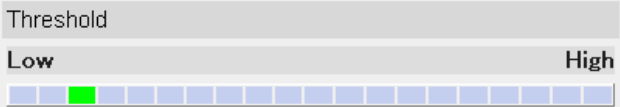
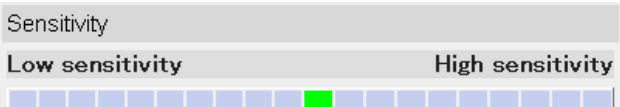


Item	Supported Feature
<ul style="list-style-type: none"> • Camera resolution: 1920x1080 • Camera frame rate: 30 FPS • Camera zoom: 2x 	<ul style="list-style-type: none"> • Camera resolution: 1920x1080 • Camera frame rate: 30 FPS • Camera zoom: 2x
<ul style="list-style-type: none"> • Camera resolution: 1920x1080 • Camera frame rate: 30 FPS • Camera zoom: 2x 	<ul style="list-style-type: none"> • Camera resolution: 1920x1080 • Camera frame rate: 30 FPS • Camera zoom: 2x

Figure 4-50. Transferring Camera Images in Transport Mode



4.7 Setting the Motion Detection

1. Click on the **Motion Detection** icon in the **Settings** menu.
2. Set the **Threshold** slider to the desired level.
 
3. Set the **Sensitivity** slider to the desired level.
 
4. Click on the **OK** button to save the settings.
5. Click on the **Cancel** button to cancel the settings.

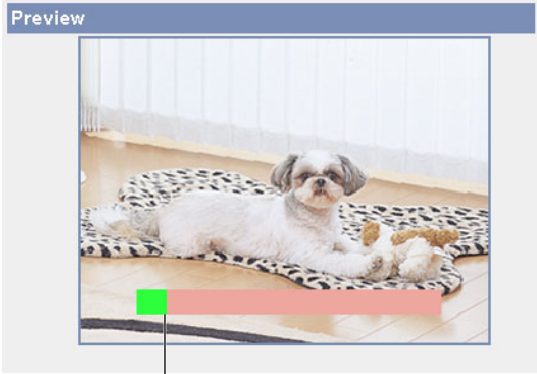
Setting	Description
Threshold	The threshold is the minimum level of motion detection required to trigger an alarm. A higher threshold means that only significant motion will trigger an alarm, while a lower threshold means that even small movements will trigger an alarm.
Sensitivity	The sensitivity is the level of motion detection required to trigger an alarm. A higher sensitivity means that even small movements will trigger an alarm, while a lower sensitivity means that only significant motion will trigger an alarm.

Note

- The motion detection settings are only valid for the selected camera.

Preview

- [faded text]
- [faded text]
- [faded text]
- [faded text]



Note

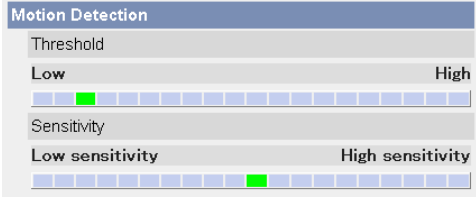
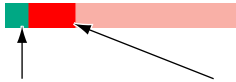
- [faded text]

What is “threshold”?

Threshold is the level of motion that must be detected for the system to trigger an alarm. It is represented by a vertical line on a graph of motion vs. time. The area under the curve to the right of the threshold line is shaded red, indicating motion that triggers the alarm.

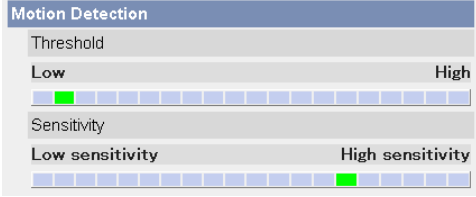
What is “sensitivity”?

Sensitivity is the range of motion that the system will detect. It is represented by a horizontal bar on a graph of motion vs. time. The bar is shaded red, indicating the range of motion that triggers the alarm.



Note

When the threshold is set too low, the system will trigger an alarm for minor motion. When the threshold is set too high, the system will not trigger an alarm for significant motion.



Note

When the sensitivity is set too low, the system will not detect motion that is within the range of the threshold. When the sensitivity is set too high, the system will detect motion that is outside the range of the threshold.

1. The first step in the process of identifying a problem is to recognize that a problem exists. This is often done by comparing current performance to a desired state or goal.

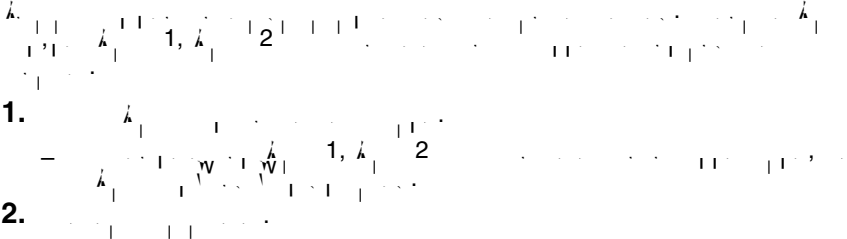
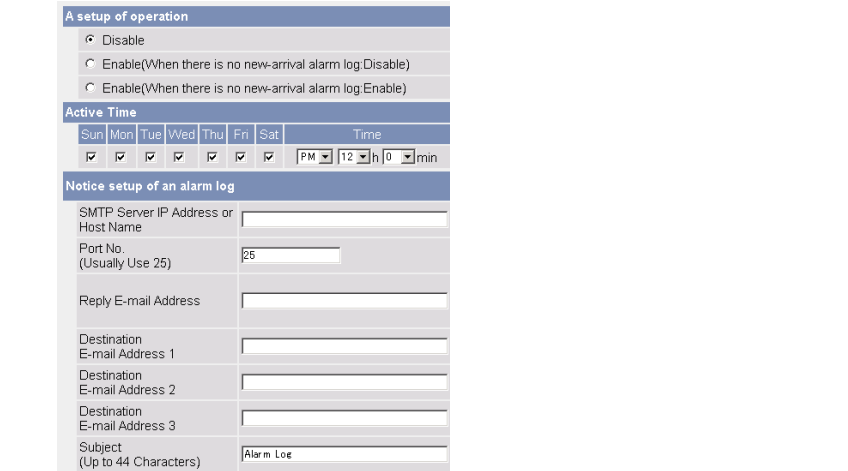
2. Once a problem is identified, the next step is to define the problem. This involves determining the scope of the problem, the resources available, and the constraints that may be present.

3. The third step is to analyze the problem. This involves identifying the causes of the problem and determining the underlying factors that are contributing to it.

4. The fourth step is to develop a solution. This involves brainstorming potential solutions, evaluating the pros and cons of each, and selecting the most appropriate one.

5. The final step is to implement the solution. This involves putting the chosen solution into action and monitoring its progress to ensure that it is effective.

4.8 Setting Alarm Log Notification

1. 
2. 

A setup of operation

Disable

Enable(When there is no new-arrival alarm log.Disable)

Enable(When there is no new-arrival alarm log.Enable)

Active Time

Sun	Mon	Tue	Wed	Thu	Fri	Sat	Time
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	PM 12 h 0 min

Notice setup of an alarm log

SMTP Server IP Address or Host Name

Port No. (Usually Use 25)

Reply E-mail Address

Destination E-mail Address 1

Destination E-mail Address 2

Destination E-mail Address 3

Subject (Up to 44 Characters)

How to authenticate

No authentication

POP before SMTP authentication

POP3 Server IP Address or Host Name

Port No. (Usually Use 110)

Login ID (1 to 63 Characters)

Password (0 to 63 Characters)

SMTP authentication

Login ID (1 to 63 Characters)

Password (0 to 63 Characters)

3. 
4. 

Note

Setting	Description
	(0 255) "192.168.0.253" (0 255) "0.0.0.0" "255.255.255.255" (1 255)
	(1 65535). 25.
	(3).
	(44 176) 1- 0 22 2-)

Setting	Description
	<p>POP server authentication may be required by your ISP. In that case, set POP before SMTP authentication.</p> <p>4 (0 255) 3 "192.168.0.253". "0.0.0.0" "255.255.255.255" (0 255). 6 (1 65535). 110. 63 (1 63 (0 (1 63 (0 63</p>

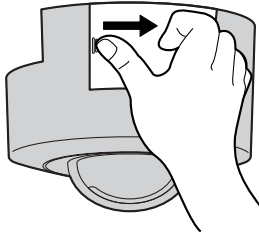
*1 " " , & , < > .
*2 " " .

4.9 Using the SD Memory Card

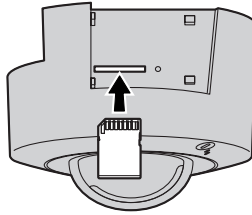
Note

- For details on the SD Memory Card, refer to the user manual (page 129).
 - For details on the SD Memory Card, refer to the user manual (page 129).
- <http://panasonic.co.jp/pcc/products/en/netwcam/>

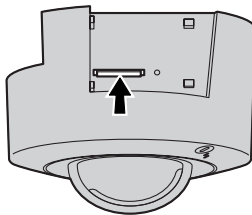
- 1.
- 2.



- 3.



- 4.



4.9.1 Format the SD Memory Card

Note

- 1.
- 2.
- 3.

Trigger												
No	Status	Trigger	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Active Time of Trigger	Transfer Method	Notify
1	OFF	Timer	X	X	X	X	X	X	X	Always	No Transfer, No Memory Overwrite	-
2	OFF	Timer	X	X	X	X	X	X	X	Always	No Transfer, No Memory Overwrite	-
3	OFF	Timer	X	X	X	X	X	X	X	Always	No Transfer, No Memory Overwrite	-
4	OFF	Timer	X	X	X	X	X	X	X	Always	No Transfer, No Memory Overwrite	-
5	OFF	Timer	X	X	X	X	X	X	X	Always	No Transfer, No Memory Overwrite	-

SD memory card

To format the SD memory card or stop SD recording, click the desired button below.
 To stop SD recording, click the SD video recording stop button.

- 4.
- 5.

4.9.2 Start the SD Memory Recording

Note

- 1.
- 2.

Trigger												
No	Status	Trigger	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Active Time of Trigger	Transfer Method	Notify
1	OFF	Timer	X	X	X	X	X	X	X	Always	No Transfer, No Memory Overwrite	-
2	OFF	Timer	X	X	X	X	X	X	X	Always	No Transfer, No Memory Overwrite	-
3	OFF	Timer	X	X	X	X	X	X	X	Always	No Transfer, No Memory Overwrite	-
4	OFF	Timer	X	X	X	X	X	X	X	Always	No Transfer, No Memory Overwrite	-
5	OFF	Timer	X	X	X	X	X	X	X	Always	No Transfer, No Memory Overwrite	-

SD memory card

To format the SD memory card or start SD recording, click the desired button below.
To start SD recording, click the SD video recording start button.

- 3.
- 4.

Note

4.9.3 Stop the SD Memory Recording

Note

- 1.
- 2.

Trigger												
No.	Status	Trigger	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Active Time of Trigger	Transfer Method	Notify
1	OFF	Timer	X	X	X	X	X	X	X	Always	No Transfer, No Memory Overwrite	-
2	OFF	Timer	X	X	X	X	X	X	X	Always	No Transfer, No Memory Overwrite	-
3	OFF	Timer	X	X	X	X	X	X	X	Always	No Transfer, No Memory Overwrite	-
4	OFF	Timer	X	X	X	X	X	X	X	Always	No Transfer, No Memory Overwrite	-
5	OFF	Timer	X	X	X	X	X	X	X	Always	No Transfer, No Memory Overwrite	-

SD memory card

To format the SD memory card or stop SD recording, click the desired button below.
 To stop SD recording, click the SD video recording stop button.

- 3.
- 4.

Note

5 Using Other Features

5.1 Changing Initial Settings on the Single Camera page or the Multi-Camera page

- 1.
- 2.

Single Camera	
Image Resolution	320x240 ▾
Image Quality	Standard ▾
Refresh Interval	Motion ▾
Multi-Camera	
Image Resolution	320x240 ▾
Image Quality	Standard ▾
Refresh Interval	Motion ▾
Time stamp setting	
Time stamp	Disable ▾
Language	
Language	English ▾
Banner Display	
<input type="checkbox"/> Enable	
Banner user	All users ▾
Image URL (1 to 127 Characters)	<input type="text"/>
Link URL (0 to 127 Characters)	<input type="text"/>
<input type="button" value="Save"/> <input type="button" value="Cancel"/>	

Setting	Description
	640 480 () 320 240 () 160 120 ()
	()
	(), 3, 5, 10, 30, 60
	<p>Note</p> <ul style="list-style-type: none"> - - /p 24
	<
	<p>Note</p> <ul style="list-style-type: none"> - -

Setting	Description
	<p>^</p> <p>^</p> <p>^</p> <p>^</p>
*1	<p>v</p> <p>127</p> <p>)</p> <p>(1</p>
*1	<p>w</p> <p>w</p> <p>(0 127</p> <p>)</p>

*1 ^ " , & , < , > .

3. v

- v

- "

4. "

- "

5.2 Configuring Multiple Cameras

- 1.
2. **Add.**

No.	Display	IP Address or Host Name	Port No.	Camera Name
1	On	selfcamera	--	XXXXXXXX
Add				

Note

Change Camera Order

From No. 1 To No. 1

- 3.

Add Camera

Display	<input checked="" type="checkbox"/> On
IP Address or Host Name	<input type="text"/>
Port No. (1 to 65535)	<input type="text"/>
Camera Name (1 to 15 characters)	<input type="text"/>

[Clicking this link, enters this camera's settings.](#)

Setting	Description
*1	
*2	(1 65535).
*3	

*1 4, 4, (0 255) 3 "192.168.0.253".
 "0.0.0.0" "255.255.255.255"
 *2 6, (176).
 &, %, =, +, *, < >
 *3 1 255 (176) (1 15
 1 7 2-)
 #, &, %, =, +, *, < >

Note

-
-
- 4.
-
-

5.3 Specifying Operation Time

Note

- 1.
- 2.

No.

Operation Time									
No.	Status	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Operation Time
1	Disable	X	X	X	X	X	X	X	Always
2	Disable	X	X	X	X	X	X	X	Always
3	Disable	X	X	X	X	X	X	X	Always
4	Disable	X	X	X	X	X	X	X	Always
5	Disable	X	X	X	X	X	X	X	Always
6	Disable	X	X	X	X	X	X	X	Always
7	Disable	X	X	X	X	X	X	X	Always

Note

- 3.

Operation Time									Operation Time	
Enable	Sun	Mon	Tue	Wed	Thu	Fri	Sat			
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="radio"/> Always	<input type="text" value="AM"/> <input type="text" value="12"/> <input type="text" value="0"/> min
									to	<input type="text" value="AM"/> <input type="text" value="12"/> <input type="text" value="0"/> min
<input type="button" value="Save"/> <input type="button" value="Cancel"/>										

Setting	Description
1	Always
2	Always
3	Always

- 4.
- -
 -

About Operation Time

The operation time of the device is set to Always. The operation time of the device is set to Always. The operation time of the device is set to Always.

No.	Status	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Operation Time
1	Enable	X	X		X	X	X	X	Always
2	Enable	X		X	X	X	X	X	Always

5.4 Controlling External Output

- 1.
- 2.

External Device Control Output

Open

Short to GND

Button name modification

Open (1 to 6 Characters)

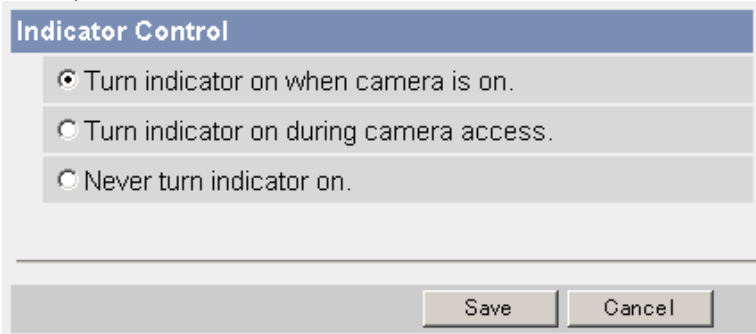
Short to GND (1 to 6 Characters)

- 3.

Setting	Description
External Device Control Output	Controls the output of the external device. The 'Open' option is selected by default.
Button name modification	Allows you to modify the button names for the 'Open' and 'Short to GND' options. The names are limited to 1 to 6 characters.

5.5 Changing the Indicator Display

1. Tap the indicator icon in the top status bar.
2. Tap the indicator icon in the top status bar.



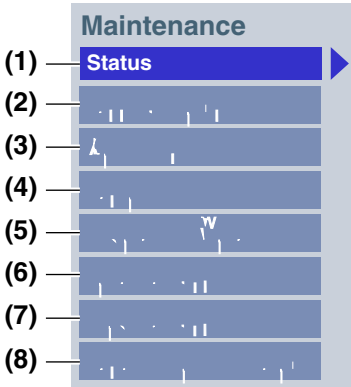
3. Tap the indicator icon in the top status bar.
4. Tap the indicator icon in the top status bar.
5. Tap the indicator icon in the top status bar.
6. Tap the indicator icon in the top status bar.
7. Tap the indicator icon in the top status bar.
8. Tap the indicator icon in the top status bar.

Note

3. Tap the indicator icon in the top status bar.
4. Tap the indicator icon in the top status bar.

6 Camera Maintenance

6.1 Maintenance page



Maintenance

- (1) **Status** 142).
 - (2) **Session Status** 142).
 - (3) **Alarm Log** 143).
 - (4) **Restart** 144).
 - (5) **Update Firmware** 145).
 - (6) **Save Settings** 147).
 - (7) **Load Settings** 148).
 - (8) **Reset to Factory Default** 149).
-

6.1.1 Confirming the Status

Version	
Displays Hardware/Firmware Version.	
Model	*****
Firmware(Boot)	* **
Firmware(Application)	* **

Note

<http://panasonic.co.jp/pcc/products/en/netwcam/>

6.1.2 Confirming Session Status

Number of Sessions		
Show number of motion and audio sessions.		
Div	Max Sessions	Now Sessions
Motion	30	1
Audio	10	1

List of Sessions		
Display max 40 tables connecting now.		
Table Part	User	

6.1.3 Confirming Alarm Logs

1.

2.

		New Alarm Logs
		3
Date	Sensor Type	Signal Type
2005/ 5/19 13:24:32	Motion Detection	-----
2005/ 5/19 13:22:53	Alarm2	Fall
2005/ 5/19 13:21:36	Alarm1	Rise

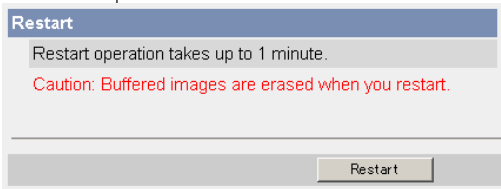
Note

Item	Description
	1, 2,
	(1, 2,
	1 2.

6.1.4 Restarting the Camera

Note

- The camera will restart automatically if the power is interrupted.
 - The camera will restart automatically if the camera is disconnected from the power source.
1. Press the **Restart** button.
 2. The camera will restart automatically.



1

6.1.5 Updating the Camera Firmware

Note

- 1.
- 2.
- 3.

<http://panasonic.co.jp/pcc/products/en/netwkcaml/>

Update Firmware

You can update to the latest version of the camera internal operating system. Click on "Update Firmware" below. Depending on the speed of your system, the procedure can take up to 4 minutes.

Caution: (1)Buffered images are erased when you execute this function.
(2)Never turn off the power during the firmware update process.

Update Firmware

Restarting now...

Restart operation takes up to 1 minute.

Please enter the proper IP address to URL when no response.

Please enter or browse the firmware file name for update.

File Name

The firmware update process takes about 180 seconds via "File Upload", "Flash-ROM Writing", and "Restart", automatically. To cancel the firmware update, please push "Cancel".

Caution: Never turn off the power, during the firmware update process.

Update Firmware

Cancel

4.

5.

6.

Updating firmware.

Please wait about 160 seconds.

Caution: Never turn off the power, during the firmware update process.

Restarting now...

Restart operation takes up to 1 minute.

Please enter the proper IP address to URL when no response.

7.



6.1.6 Creating the Configuration File

1. In the **Configuration** pane, click **Configuration File** (see Figure 148).

Note

– The **Configuration File** pane is only available when the **Configuration** pane is open.

1. Click **Save Settings**.
2. Click **Save**.



3. Click **OK**.
4. Click **OK** in the **Configuration File** dialog box.

– The **Configuration File** pane is only available when the **Configuration** pane is open.

Note

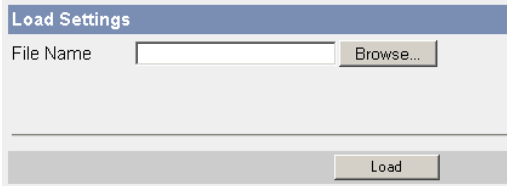
– The **Configuration File** pane is only available when the **Configuration** pane is open.

– The **Configuration File** pane is only available when the **Configuration** pane is open.

6.1.7 Loading Settings from a Configuration File

Note

1. Click **File** > **Load Settings**.
2. In the **Load Settings** dialog box, click **Browse...** to select the configuration file.



3. Click **Load** to load the settings from the selected configuration file.
4. The settings are loaded from the configuration file.
5. The **Load Settings** dialog box is closed.

6.1.8 Resetting the Camera to Factory Default

- 1.
- 2.

Reset To Factory Default

The Reset to Factory Default operation takes about 1 minute. This feature will be executed and all camera settings reset to factory default directly after the Execute button is clicked.

Caution: (1) Buffered images are erased when you execute this function.
(2) Never turn off the power during the Reset to Factory Default.
(3) All the network settings will be initialized, and must be reconfigured again.

Execute

Note

6.2 Support page



Support

- (1) **Help**
- (2) **Product Information**
- (3) **Support Information**

6.2.1 The Help page



6.2.2 Product Information



6.2.3 Support Information



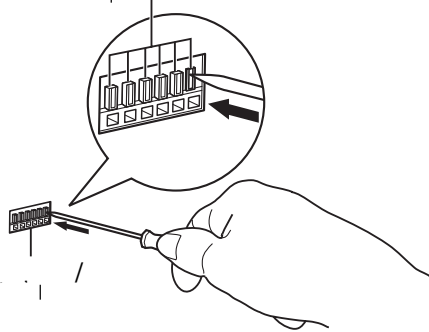
6.3 External I/O

Explanation of the External I/O

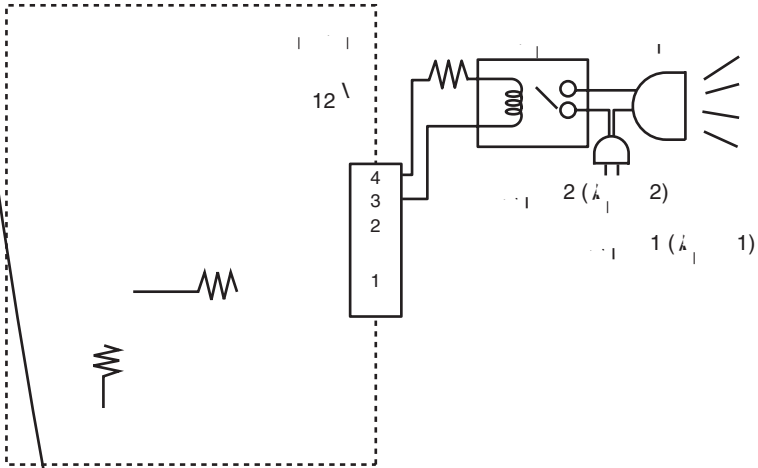
Pin	Features
1	1
2	2
3	139). 4. (4).
4	10.5 13 \ 100

Note

- (/ (/)) 139.
- / w



Circuit Diagram Example

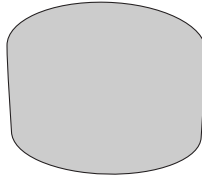


CAUTION

- The external I/O is not capable of connecting directly to devices that require large amounts of current. In some cases, a custom interface circuit (customer-provided) may have to be used. Serious damage to the camera may result if a device that exceeds its electrical capability is connected to the external I/O (see page 151).
- Low voltage/current circuits and high voltage/current circuits are used in the camera circuit. All wiring should be performed by a qualified electrician. Incorrect wiring could damage the camera and cause a fatal electric shock.

7.2 Cleaning

10),



Note

-
-

7.3 Setting an IP Address on Your PC

1. Open the Control Panel, Network and Sharing Center, and then click on the Network Connections link.

OS	Steps
Windows 7	<ol style="list-style-type: none"> 1. Right-click on the network connection you want to configure and select Properties. 2. In the list of components, select Internet Protocol Version 4 (TCP/IPv4) and click on Properties. 3. Select Use the following IP address and enter the IP address and subnet mask. 4. Select Use the following DNS server addresses and enter the DNS server addresses. 5. Click on OK.
Windows 8	<ol style="list-style-type: none"> 1. Right-click on the network connection you want to configure and select Properties. 2. In the list of components, select Internet Protocol Version 4 (TCP/IPv4) and click on Properties. 3. Select Use the following IP address and enter the IP address and subnet mask. 4. Select Use the following DNS server addresses and enter the DNS server addresses. 5. Click on OK.
Windows 10	<ol style="list-style-type: none"> 1. Right-click on the network connection you want to configure and select Properties. 2. In the list of components, select Internet Protocol Version 4 (TCP/IPv4) and click on Properties. 3. Select Use the following IP address and enter the IP address and subnet mask. 4. Select Use the following DNS server addresses and enter the DNS server addresses. 5. Click on OK.

2. Open the Control Panel, Network and Sharing Center, and then click on the Network Connections link.
3. Right-click on the network connection you want to configure and select Properties.

Local IP Address

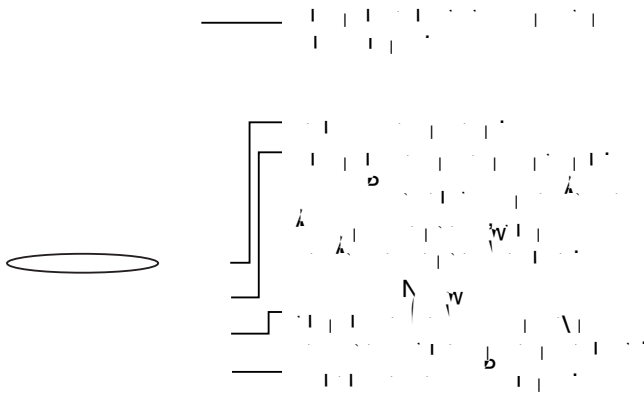
Class	Subnet Mask	Local IP Address
A	255. 0. 0. 0	10. 0. 0. 1
B	255. 255. 0. 0	172. 16. 0. 1
C	255. 255. 255. 0	192. 168. 0. 1

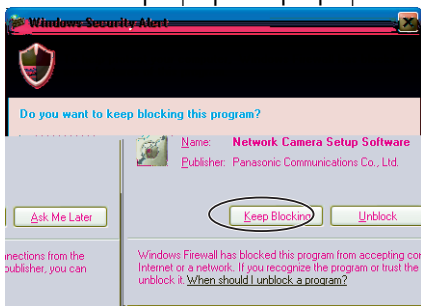
7.4 Using Setup Program

- Select the camera type
- Select the camera model
- Select the camera resolution
- Select the camera frame rate
- Select the camera zoom
- Select the camera pan
- Select the camera tilt
- Select the camera rotation

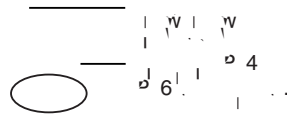
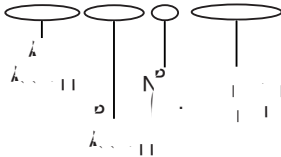
Finding the camera

1. Select the camera type
2. Select the camera model

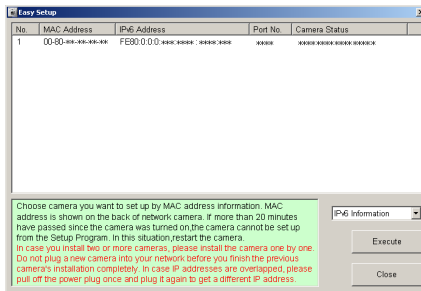




IPv4 Information



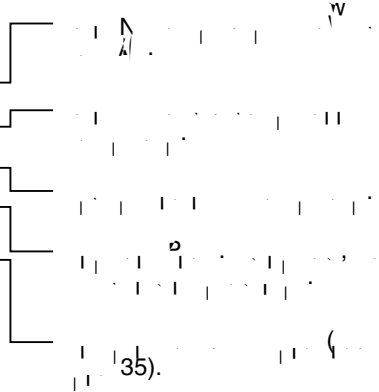
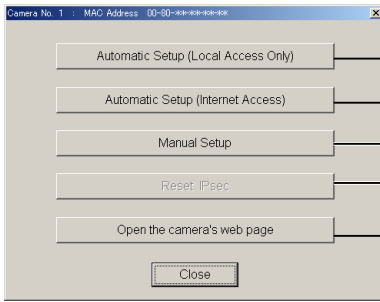
IPv6 Information



Note

Automatic Setup (Local or Internet Access) or Manual Setup

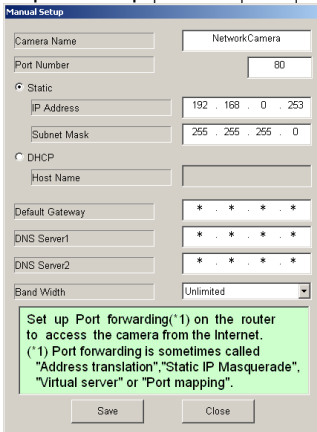
1. Click on the **Automatic Setup (Local Access Only)** button.
2. Click on the **Automatic Setup (Internet Access)** button.



Note

For more information on port forwarding, see the [Port Forwarding](#) section.

Manual Setup window



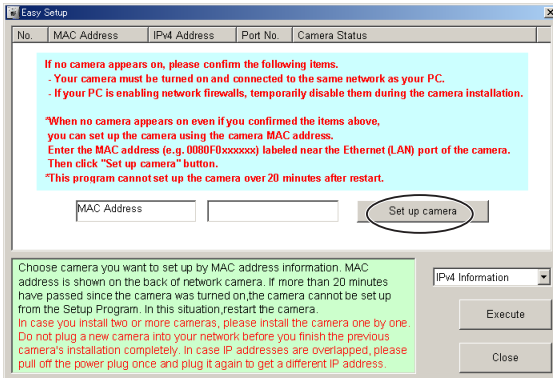
3.

Setting up the Camera Using the MAC Address on the Setup Program

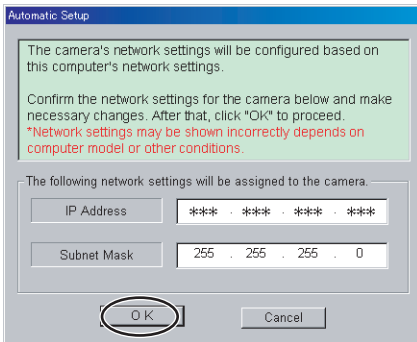
1.

Note

9).



2.



3.

Security: Administrator

New User Name (6 to 15 characters)	<input type="text"/>
New Password (6 to 15 characters)	<input type="password"/>
Retype new password	<input type="password"/>

Note : (1) You'll be asked for User name and password to open camera image.
Please keep your User Name and Password securely.
(2) Alphabet and number only. [Space],[],[&],[.],[<] or [>] are not allowed.
(3) A capital letter/small letter is distinguished.
(4) User Name and Password must be different from each other.
(5) It is strongly recommended to change password regularly for security.

4.

Enter Network Password

Please type your user name and password.

Site: *:*:* *:*:* *:*:* *:*:*

Realm: *:*:*:*

User Name:

Password:

Save this password in your password list

5.

18 2. (17)

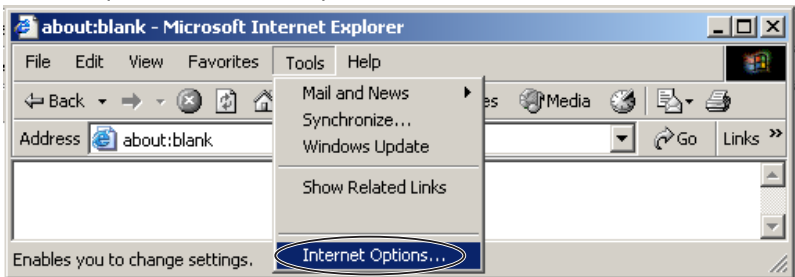
7.5 Setting Your PC

7.5.1 Setting Proxy Server Settings on a Web Browser

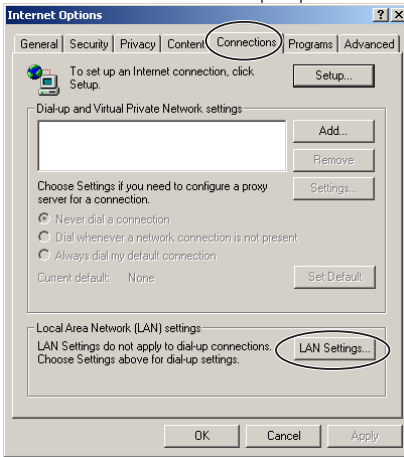
Note

How to Set Proxy Server Settings

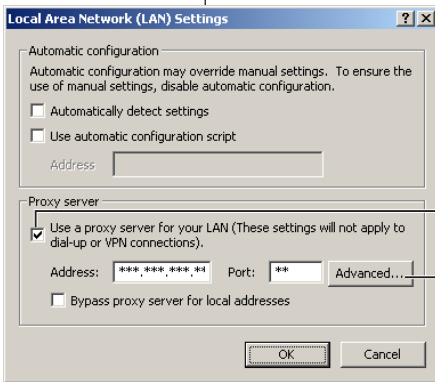
1. Open Internet Explorer (version 6.0 or later).
2. Click on the Tools menu and select Internet Options.



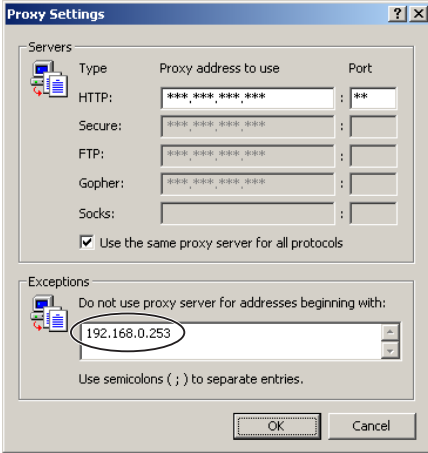
3.



4.



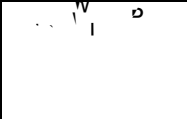

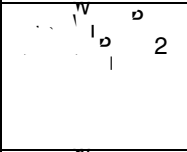
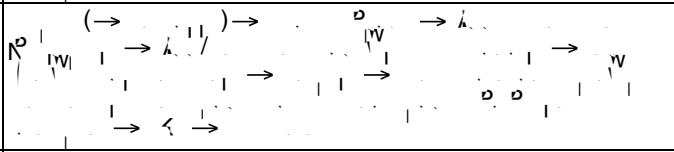
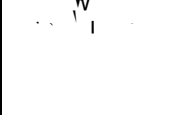
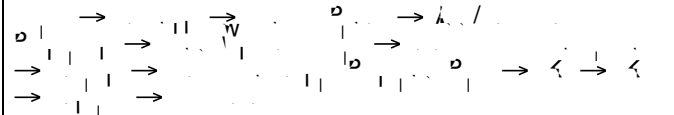
5.



6.

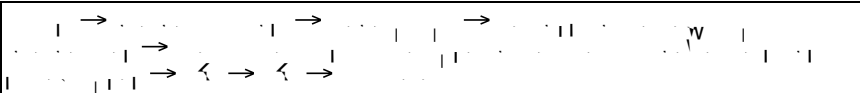
Note

7.5.2 Setting UPnP™ to Display Camera Shortcut in My Network Places

OS	Steps
	
	
	

Note

7.5.3 Setting the Internet Temporary File Setting on the Web Browser



7.6 Default Setting List

Basic

Items	Default	Required	Note
(p 4)		-	
		-	-
		-	-
	80	-	20, 21, 25, 110 *2
	192.168.0.253		*1
	255.255.255.0		*1
			0 63 *4
			*1
			*1
		-	0.1, 0.2, 0.3, 0.5, 1
		-	100, 100, 10, 10

	Items	Default	Required	Note
A W (6)			-	
			-	
		80	-	20, 21, 25 110 *2.
				*1
				*1
				*1
				0.1, 0.2, 0.3, 0.5, 1
				100 100 10 10
D 1			-	
		(3)	-	
			-	
			-	
D D			-	
			-	

	Items	Default	Required	Note
<p>11111</p>				
				1 255 *8
		10		/10, 30(), 1, 3, 6, 12, 24()
				0 63
				0 63
<p>11111</p>		/0	-	/0 /24
				-
				1 255 *4
		-05:00	-	-
			-	-
		2	-	-
<p>11111</p>				1 15 *6
			-	/ / ()/ ()/ /
			-	-

	Items	Default	Required	Note
A			-	-
			-	/
		1	-	1, 2, 3, 5, 10, 20, 30, 60 ()
			-	-
			-	/

Account

	Items	Default	Required	Note
Account	Account		-	-
	Account		Account	6 15 *3
	Account		Account	6 15 *3
	Account		Account	6 15 *3
Account	Account		-	-
	Account		Account	6 15 *3
	Account		Account	6 15 *3
	Account		Account	6 15 *3
	Account		Account	Account, 10, 30 (), 1, 5, 10, 30, 60 ()
	Account	3	-	3, 5, 10, 30, 60 ()
	Account		-	-

Buffer/Transfer

	Items	Default	Required	Note
<p>100</p> <p>100</p> <p>100</p> <p>100</p> <p>100</p> <p>100</p> <p>100</p> <p>100</p>			-	-
			-	1/1 1/2/1
			-	-
	()	320 240	-	160 120, 320 240, 640 480
			-	
			-	30
			-	-
				1, 2
<p>100</p> <p>100</p>			-	-
			-	-

	Items	Default	Required	Note
			1, 2	
				/p, 1, 12 (), 0/10/20/30/ 40/50 ()
		p 12 0		-
				-
		25		*2
		110		*2
				-

Items	Default	Required	Note
-	.1	-	-
			-
o k			*1 *5 1 255
o	--		20, 21, 25 110 *2
	403		1 15 *7
	.1 .1	-	.1 .12
		-	-
		-	/
		-	-
		-	-

*1 o 4, 4 (0 255) 3 "192.168.0.253".
"0.0.0.0" "255.255.255.255"
o 6, 8 0
(. 2001:2:3:4::5)

*2 1 65535.

*3 k (176).
, , , & , < , > : .

*4 k (176).
, , , & , < , >

*5 k (176).
, , , # , & , % , = , + , * , < , >

*6 k (176) (1 15
1- 1 7 2-).
& , < , >

```

*7 ... k ... ( ... 176) ... (1 15 ...
  1- ... 1 7 ... 2- ... ) ...
# , & , % , = , + , * , < , > ...
*8 " ... : ...

```

7.7 ASCII Character Table

ASCII Character Table					
{	0		0		
	1				
!	2	!			
"	3				
#	4				
\$	5				
%	6		\		
&	7				
'	8				
(9				
)	:				
*	;				
+	=	<			
,	>				
-	?	N			
.	^				
/	_				

7.8 File Size and Number of Buffered Images

Note

Resolution	Items	Capture	Favor Clarity	Standard	Favor Motion	Mobile Phone*1
640 480 ()		60	50	33	20	-
		-	40	60	100	-
320 240 ()		30	25	16	8	8
		-	80	125	250	250
160 120 ()		10	7	5	3	3
		-	290	400	675	675

The maximum number of Buffer/Transfer images

5

E.g.

320 240
125

3

40

7.9 Number of Images on the SD Memory Card

- 2 : 0.5
- 1 : 0.25
- 512 : 0.512
- 256 : 0.256
- 128 : 0.128
- 64 : 0.064

Resolution/ Image Quality		2 GB	1 GB	512 MB
160		620,000	300,000	157,000
120 ()		370,000	180,000	94,000
		260,000	130,000	67,000
320		230,000	110,000	58,000
240 ()		115,000	58,000	29,000
		70,000	37,000	18,000
640		90,000	47,000	23,000
480 ()		55,000	28,000	14,000
		35,000	18,000	9,000

Resolution/ Image Quality		256 MB	128 MB	64 MB
160		78,000	39,000	19,000
120 ()		47,000	23,000	11,000
		33,000	16,000	8,000
320		29,000	14,000	7,000
240 ()		14,000	7,000	3,000
		9,000	4,000	2,000
640		11,000	5,000	2,000
480 ()		7,000	3,000	1,000
		4,000	2,000	1,000

7.10 Specifications

Network Camera

Items	Specifications
	: 0, +65,
	1/4- (), 320,000 ()
	3 100,000 (0.2 100,000)
	k / /
	0.5 (20)
	3.5
	53:
	40:
	k

Other Specifications

Items	Specifications
	(3)
	640 480, 320 240 (), 160 120
*1	k 125 (320 240) ^V ()
k	2 ^V
k	k 32<
k	300 > 3.4< >
k	() ^V k
	() ^V k
k	()
*2	k ()
*3	.12 / (640 480) .30 / (320 240 160 120)

Items	Specifications
Supported Protocols	IPv4/IPv6 Dual-Stack <ul style="list-style-type: none"> • IPv4: TCP, UDP, IP, HTTP, FTP, SMTP, DHCP, DNS, ARP, ICMP, POP3, NTP, UPnP™, IPsec • IPv6: TCP, UDP, IP, HTTP, FTP, SMTP, DNS, ICMPv6, POP3, NDP, NTP, IPsec
IPsec Feature	ESP Encryption, ESP Authentication Transport mode/Tunnel mode IKE (Internet Key Exchange)
IKE (Internet Key Exchange)	Pre-Shared Key
Cipher Algorithm	DES-CBC, 3DES-CBC, AES-CBC
Message-Digest Algorithm	HMAC-MD5, HMAC-SHA-1
Message Transfer Condition	Alarm, Timer or Motion Detection
Image Transfer Method	SMTP*4, FTP
Interface	10Base-T/100Base-TX Ethernet RJ-45 connector x 1
Indicator Display	Power/Network Communication/Camera operation/Ethernet link
External Microphone Input	ø 3.5 mm Mini Jack
Audio Output	ø 3.5 mm Stereo Mini Jack (But output is mono.)
External I/O	External Sensor Input x 2 External Sensor Output x 1
SD Memory Card Slot	Full Size
Dimension (HWD)	97.5 (3 13/16 inches) mm x 123 (4 13/16 inches) mm x 123 (4 13/16 inches) mm
Weight	330 g (0.73 lb.) (Only the unit)
AC adaptor (Model No. BB-HCA2A: Option)	Input 120 V AC, 60 Hz Output 12 V DC, 0.75 A
Power Consumption	PoE: (48 V, IEEE 802.3af-compliant Power over Ethernet): About 5.5 W AC adaptor: About 5.8 W

Items	Specifications
	: 0, (+32,) +40, (+104,) : 0, (+32,) +50, (+122,)
	: 20 % 80 % () : 20 % 90 % ()

- *1
- *2
- *3
- *4

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